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December 19, 2011

Ms. Erin McCarthy Recovery Permit Coordinator Carlsbad Fish and Wildlife Office 6010 Hidden Valley Road, Suite 101 Carlsbad, California 92011

RE: 2011 LanEast Solar Energy Project, Quino Checkerspot Butterfly 45-Day Summary Report, Boulevard, California

Dear Ms. McCarthy:

In compliance with the Special Terms and Conditions for Endangered and Threatened Wildlife Species Permit TE-820658-4.6, on behalf of LanEast Solar Farm, LLC, AECOM submits this letter report summarizing the results of focused surveys conducted in 2011 for the federally listed endangered Quino checkerspot butterfly (*Euphydryas editha quino*; Quino) for the LanEast Solar Farm Project (Proposed Project or "Project") in Boulevard, California. AECOM currently holds an Endangered and Threatened Species Permit issued by the U.S. Fish and Wildlife Service (USFWS) under Section 10(a)(1)(A) of the Federal Endangered Species Act. This permit authorizes AECOM to conduct presence/absence surveys for Quino and other species.

Project Description

The Proposed Project is a concentrating photovoltaic (CPV) power plant with alternating current (AC) generating capacity of as much as 20.4 megawatts (MW) AC. The Project will consist of up to approximately 900 CPV trackers grouped into approximately 15 building blocks with up to 60 trackers and one pair of 630 to 680-kilowatt (kW) inverters. Each inverter pair is equipped with a small step-up transformer. The AC inverter capacity determines the nameplate capacity of each building block to be 1.26 to 1.36 MW AC; therefore, the total Project capacity is 20.16 to 20.4 MW AC. The Project will be constructed on relatively flat to gently sloping land currently zoned agricultural and used for grazing. The Project site consists of approximately 250 acres and is situated on both sides of McCain Valley Road. It is contiguous to the north side of Old Highway 80 and the south side of Interstate 8. The Project site lies within the unincorporated area of San Diego County just east of Boulevard, California (Figures 1, 2). It will interconnect to San Diego Gas & Electric's (SDG&E) local distribution system at the Boulevard Substation via a dedicated 69-kilovolt (kV) tie-line.

The Project site totals approximately 250 acres. Two portions of the Project site were excluded from the Quino survey area, resulting in approximately 229.26 acres for the Quino survey area. One area excluded was a 0.14-acre cattle pond in the southeast corner that was not suitable for Quino. The other excluded area overlaps with a separate project's study area. This was a corridor (16.79 acres) parallel to and directly north of Old Highway 80 that extends north along McCain Valley Road. Therefore, approximately 229.26 acres of



potential Quino habitat within the Project site comprised the Quino survey area and was surveyed by AECOM in 2011 (Figure 3).

Site Description

The Quino survey area is located in a desert transition zone dominated by chaparral communities, alkali meadows and seeps, subshrub communities, oak woodlands, and wildflower fields. Elevation within the proposed site ranges from approximately 3,175 to 3,310 feet above mean sea level with gently sloping hillsides and shallow valleys. Rock outcrops and a few small hills are scattered throughout the proposed site. The Quino survey area is located on an active cattle ranch. The vegetation communities found within the Quino survey area are listed below. Vegetation was mapped during field surveys using large-plot aerial photographs at a scale of 1 inch = 200 feet. The Holland (1986) classification system for natural communities as modified by Oberbauer et al. (2008) was used for vegetation mapping. The vegetation communities are described below in order of abundance, starting with the most common community. Following the community name is the Holland (1986) classification number in parentheses (as updated by Oberbauer et al. 2008).

Semi-Desert Chaparral (37400)

Semi-desert chaparral is an open-canopy chaparral community dominated by widely spaced evergreen shrub species within a matrix of subshrubs and succulent desert transition species. This community is more open and is not quite as tall as other chaparral types, and is probably dormant in winter (due to cold temperatures) and in late summer and fall (due to drought) (Holland 1986). Dominant species are scrub oak (*Quercus xacutidens*), chamise (*Adenostoma fasciculatum*), holly-leaf cherry (*Prunus illicifolia*), interior flat-topped buckwheat (*Eriogonum fasciculatum* spp. *polifolium*), foothill buckwheat (*Eriogonum wrightii* var. *membranaceum*), and mountain mahogany (*Cercocarpus betuloides*). Common desert transition species include cholla cactus (*Cylindropuntia californica* var. *parkeri*), Mojave yucca (*Yucca schidigera*), ephedra (*Ephedra californica*), and desert apricot (*Prunus fremontii*).

Alkali Seep (45320)

Alkali seep as defined in Holland (1986) and Oberbauer et al. (2008) is a wetland vegetation type that supports halophytic plant species such as salt grass (*Distichlis spicata*), salt heliotrope (*Heliotropium curassavicum*), Mexican rush (*Juncus mexicanus*), and alkali sacaton (*Sporobolus airoides*). Within the Quino survey area, this community is consistently dominated by salt grass and salt heliotrope, with presence of the other halophytic species. This community extends throughout the gentle floodplain of Walker Creek, and is subject to extensive cattle and horse grazing.



Freshwater Seep (45400)

Freshwater seep is a persistent wetland dominated by low-growing, perennial plant species. It occurs in permanently moist or wet soil often associated with grasslands or meadows. This vegetation community is dominated by various wetland plant species, including sedges (*Carex* spp.), rushes (*Juncus* spp.), and yerba mansa (*Anemopsis californica*) (Oberbauer et al. 2008).

Red Shank Chaparral (37300)

Red shank chaparral is similar to chamise chaparral but is generally taller (6.5 to 13 feet) and usually more open. Red shank (*Adenostoma sparsifolium*) is the dominant species and occupies greater than 50% of the vegetative cover. Chamise, scrub oak, and big sagebrush (*Artemisia tridentata*) often occur as co-dominant species. This community is generally restricted to granitic soils, often at higher elevations with greater precipitation and colder winters. Red shank chaparral occurs in Southern California and is commonly occurring on interior cismontane slopes (Holland 1986). Other associated species often include Mohave yucca, California buckwheat, and foothill buckwheat.

Big Sagebrush Scrub (35210)

This community is composed of soft-woody shrubs approximately 6.5 feet tall and is dominated by big sagebrush (*Artemisia tridentata*) with several other associated subshrub and herbaceous species. Big sagebrush scrub can occur on a wide variety of soils and terrain, from rocky well-drained slopes to fine-textured valley soils with a high water table (Holland 1986).

Upper Sonoran Subshrub Scrub (39000)

Upper Sonoran subshrub scrub is a low, open scrub community that is dominated by softwooded, summer-dormant, drought-tolerant shrubs. Dominant species include interior flat-topped buckwheat, foothill buckwheat, and interior goldenbush (*Ericameria linearifolia*, *Ericameria brachylepis*). Inter-shrub spaces are occupied by many annual species, including sun cup (*Camissonia californica*) and California matchweed (*Gutierrezia californica*) (Holland 1986).

Southern Willow Scrub (63320)

Southern willow scrub is a dense, broad-leaved, winter deciduous riparian thicket dominated by several species of willow (*Salix* sp.) in association with mulefat (*Baccharis salicifolia*). Associated species found within this community include mariposa rush (*Juncus dubious*), seep monkey flower (*Mimulus guttatus*), and hoary nettle (*Urtica dioica-holosericea*), among others. This is an early seral community that requires periodic flooding to prevent succession to riparian forest (Holland 1986).



Chamise Chaparral (37200)

Chamise chaparral is dominated by chamise and generally contains lower species diversity than other chaparral communities (Holland 1986). However, several other shrub, subshrub, and herbaceous species are present as co-dominant species on occasion, including scrub oak, interior flat-topped buckwheat, foothill buckwheat, cup-leaf ceanothus (*Ceanothus greggii*), and Mohave yucca.

Coast Live Oak Woodland (71160)

Coast live oak woodland varies from an open to dense tree community, with interior coast live oak (*Quercus agrifolia* var. *oxyadenia*) as the dominant overstory species in the habitat on-site. The shrub understory of these communities may include foothill buckwheat (*Eriogonum wrightii* var. *membranaceum*) in the more open phase oak woodland, and black elderberry (*Sambucus nigra* ssp. *caerulea*) and hybrid scrub oak (*Quercus x acutidens*) in the dense phase (Holland 1986).

Wildflower Field (42300)

This community is distributed from montane areas to foothills and valleys of the Californian Floristic Province below about 4,000 to 5,000 feet elevation in San Diego County. The distinguishing feature for this community is a dominance of native herbaceous species, often with conspicuous displays of annual wildflowers. Dominance varies from site to site and from year to year (Holland 1986). This community type does not apply to desert regions (too dry) or the north coast of California (too wet). Wildflower field is a sensitive habitat because of its unique character and rare occurrence.

<u>Disturbed</u> (11300)

Disturbed areas are those affected by human activities. Vegetation does not usually become reestablished due to frequent disturbances (Holland 1986). Disturbed habitat includes the permanent dirt roads and cleared/graded areas surrounding development.

Scrub Oak Chaparral (37900)

Scrub oak chaparral is a dense, tall community that is dominated by scrub oak, and, in some areas, Palmer's oak (*Quercus palmeri*), in association with various other chaparral shrub species, including chamise, sugar bush (*Rhus ovata*), silk tassel bush (*Garrya veatchii*), cupleaf ceanothus (*Ceanothus greggii*), and big-berry Manzanita (*Arctostaphylos glauca*). This community occurs on sites that are more mesic than other chaparrals and on soils that are too shallow or xeric for oak woodland communities (Holland 1986).



Nonnative Grassland (42200)

Nonnative grassland generally occurs on fine-textured loam or clay soils that are moist or even waterlogged during the winter rainy season and very dry during the summer and fall. It is characterized by a dense to sparse cover of annual grasses, often with native and nonnative annual forbs (Holland 1986). Typical grasses within the region are cheat grass (*Bromus tectorum*), ripgut brome (*Bromus diandrus*), red brome (*Bromus madritensis* ssp. rubens), soft chess (*Bromus hordeaceus*), wild oats (*Avena* sp.), and rat-tail fescue (*Vulpia myuros*). Nonnative disturbance-related annuals such as stork's bill, fillaree (*Erodium* sp.), and short-pod mustard (*Hirschfeldia incana*) are common to this community. Although named as a nonnative community, this community often has significant biological value, since it typically supports native grassland species such as tarweeds (*Deinandra* spp.) and California goldfields (*Lasthenia gracilis*), and provides foraging habitat for raptors and often supports other sensitive wildlife species.

<u>Unvegetated Channel</u> (64200)

This community consists of unvegetated washes that are dominated by sandy substrate and little to no vegetation (Holland 1986). These channels flood with sufficient frequency to exclude vegetation. However, low cover of flood-adapted herbaceous species can be present. Within the project area, Tecate tarplant (*Deinandra floribunda*), a California Native Plant Society (CNPS) List 1B rare plant species, was present in some areas of the unvegetated washes.

Background Information

Quino was added to the federal endangered species list by USFWS on January 16, 1997 (USFWS 1997). The species (*E. editha*) has a range extending from British Columbia and Alberta, Canada, south through Colorado and Utah, and west along the coast to northern Baja California. It is divided into at least 29 subspecies, each of which has its own range and biological and morphological characteristics. In California, there are at least 18 described subspecies (Emmel 1998). Three other subspecies of *E. editha* are currently known to occur in Southern California. The Quino is the southwesternmost subspecies of *E. editha* (Mattoni et al. 1997).

Quino is known to occur in association with a variety of plant communities, soil types, and elevations (up to 5,000 feet). The plant communities include clay soil meadows, open grasslands, coastal sage scrub, chamise chaparral, red shank chaparral, juniper woodlands, and semi-desert scrub (Ballmer et al. 2001). The Quino is also associated with clay soils that possess cryptogamic crusts and vernal pools (USFWS 2002).

Quino is a medium-sized butterfly (approximately 0.8- to 1.1-inch wingspan) belonging to the family Nymphalidae. The adults are primarily orange-red with white and have black markings on the dorsal wing surface. They are active primarily in March and April. This active period



may vary depending on weather conditions (Ballmer et al. 2001). The adult butterfly feeds on nectar, which it obtains from spring annuals such as popcorn flower (*Cryptantha* sp.), Layia (*Layia glandulosa*), goldenbush (*Ericameria* sp.), pincushion (*Chaenactis* sp.), fiddleneck (*Amsinckia intermedia*), chia (*Salvia columbariae*), and blue dicks (*Dichelostemma capitatum*), among others. It cannot use flowers that possess deep corolla tubes, such as monkeyflower (*Mimulus* sp.), or those that can be opened by bees, such as snapdragons (USFWS 2002). Adult males and virgin females sometimes "hilltop," or travel to elevated locations to find mates. While waiting for females to arrive, the males will often exhibit "territorial behavior" and will chase other butterflies that approach them. Frequently, the butterflies are observed in meadows or clearings where their host plants occur (Ballmer et al. 2001).

An adult female may lay 20 to 75 eggs per cluster and may produce up to 1,200 eggs in her lifetime of a couple of weeks. The eggs hatch in approximately 10 days under favorable weather conditions, and the young larvae will immediately begin to feed upon a host plant. The feeding larvae use the dot-seed plantain (*Plantago erecta*), Patagonia plantain (*Plantago patagonica*), white snapdragon (*Antirrhinum coulterianum*), and southern Chinese houses (*Collinsia concolor*) as their host plants (Pratt 2010). Dark-tipped bird's-beak (*Cordylanthus rigidus*) and purple owl's clover (*Castilleja exserta*) are considered secondary hosts (USFWS 2002). New evidence suggests that southern Chinese houses is a primary larval food plant for Quino in the 2,953- to 4,265-foot elevation range (Pratt 2010), which is within the range coincident with the Quino survey area.

After feeding and initial growth, the early instar larvae enter an obligatory aestival diapause (dormant stage), which may be broken after fall or winter rains (Murphy and White 1984; Osborne 1998). If adverse weather conditions occur, the emergent larva may reenter a diapause stage repeatedly, for up to 5 or 6 years, until favorable weather conditions permit sufficient growth of the host plant to allow the larva to complete its development. Quino is known to undergo population fluctuations, with extirpation of local populations and recolonization of new areas characteristic of metapopulation dynamics (Osborne 1998).

Quino was once common in Southern California. It ranged north into Ventura County, west to the Pacific Ocean, east to the desert edge, and south into northern Baja California. Currently, it is known to occur only in a few, probably isolated, colonies in southwestern Riverside County, San Diego County, and northern Baja California.

Reasons for the butterfly's reduction in population are not well understood. Habitat loss due to degradation and fragmentation caused by urban and rural development, agricultural conversion, off-road-vehicular use, the invasion of nonnative plants and insects, fire management practices, overcollecting, and adverse weather conditions have likely contributed to the species' decline (USFWS 1997).

USFWS recommends that focused Quino surveys be conducted a minimum of five times during the adult flight season by biologists possessing a recovery permit for this species,



pursuant to Section 10(a)(1)(A) of the Endangered Species Act. The Quino flight season within a given area is determined by the activity of known Quino populations that are monitored annually by USFWS. The Proposed Project is located in eastern San Diego County, and the Jacumba reference site is the closest known population of Quino; therefore, surveys coincided with Quino activity at the Jacumba reference site. During the 2011 flight season, the first adult Quinos were observed flying on March 15, 2011, at the Jacumba reference site, which is approximately 3 miles to the southeast (USFWS 2011).

Survey Methodology

Habitat Assessment

In accordance with the *Quino Checkerspot Butterfly* (*Euphydryas editha quino*) *Survey Protocol Information* (USFWS 2002), a habitat assessment of the entire Quino survey area was conducted on March 25, 2011, prior to the first protocol-level survey by permitted biologists (Table 1). Protocol-level surveys of the Quino survey area were determined necessary due to the presence of suitable Quino habitat. The Quino survey area occurs within the USFWS Quino recommended survey area (USFWS 2005). Potential habitat surveyed for the Quino consisted of all habitat except for open water (cattle ponds) and developed areas. Results of habitat assessments defined all potentially suitable habitats as the Quino survey area (Figure 3). All closed-canopy chaparral, riparian forest, and oak woodland habitats were included in the Quino survey area because these areas were small and contained open patches with the potential to support Quino.

Table 1 Permitted Biologists Who Conducted Quino Habitat Assessments

AECOM Permitted Biologists:			
Erin Bergman			
Andrew Fisher			
Mike Couffer			
Subcontracted Permitted Biologists:			
oubcontracted i crimited biologists.			
Antonette Gutierrez			

Focused Adult Quino Surveys

The start date for focused adult Quino surveys was determined based on conditions at the Jacumba reference site monitored by USFWS (USFWS 2011). The Jacumba reference site population of Quino uses dotseed plantain as a host plant (USFWS 2011). This plant species, widespread on clay soils in western San Diego County, is restricted to basalt-derived clay soils in the vicinity of Jacumba Mountain, and is not present in the Quino survey

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area. The Jacumba reference site is closer to the desert at a slightly lower elevation than the Quino survey area. Due to higher elevations, the presence of granitic soils, the lack of clay soils, and the absence of dotseed plantain in the Quino survey area, any Quino population existing on-site would be expected to exhibit ecology similar to other "high" elevation Quino populations in the vicinity, which are typically associated with southern Chinese houses, white snapdragon, and dark-tipped bird's beak host plants. Quino populations in higher elevations tend to fly slightly later in the season than those populations in slightly lower elevations. Based on AECOM biologists' experience with Quino at a similar elevation (AECOM 2010), it is expected that any potential Quino population in the vicinity of the Quino survey area will have its flight season beginning 1 or 2 weeks later than the population at Jacumba.

The first adult Quino observed at the Jacumba reference site was detected on March 15, 2011 (USFWS 2011); however, due to out-of-protocol weather for most of March (mean daytime temperatures were lower than protocol survey guideline temperatures), surveys were not initiated until March 30, 2011. Focused presence/absence Quino surveys within the Quino survey area occurred March 30 to May 4, 2011. Surveys were conducted by permitted AECOM biologists Erin Bergman and Bonnie Hendricks under permit number TE-820658-4, and additional AECOM biologists with valid 10(a)(1)(A) permits. Table 2 provides a list of all biologists who conducted surveys and their permit numbers.

Table 2
Survey Personnel and Permit Numbers

Biologist	#TE Permit Number
Erin Bergman	820658-4
Michael Couffer	782703-8
Bonnie Hendricks	820658-4
Margaret Mulligan	233291-0
Ken Osborne	837760-6

Surveys were conducted during optimal periods for detecting Quino, when wind, temperature, and other weather conditions were most favorable. If weather conditions did not meet the USFWS protocol for Quino, biologists waited for the weather conditions to improve before proceeding with surveys. Surveys were terminated if sustained winds were more than 15 miles per hour. The survey routes of each permitted biologist were recorded and mapped electronically using Garmin Global Positioning System (GPS) units. Biologists walked meandering transects through all potentially suitable habitat, scanning the ground, surrounding bushes, and all nectar sources for Quino. Biologists documented any potential Quino host plant populations, all species of flowering plants (potential nectar sources), and all species of butterflies observed. Potential Quino host plants were mapped and recorded in increments of 1–10, 11–50, 51–100, 101–500, and 500+ individual plants (Figure 3).



The Quino survey area was surveyed initially every week for 5 weeks, which is the recommended minimum duration for focused Quino presence/absence surveys in the current USFWS species survey protocol (USFWS 2002). Surveys were extended an additional week within selected portions of the Quino survey area because potential Quino host plants (dark-tipped bird's beak) were present in these areas or nectar resources remained abundant. Although protocol was satisfied with the 5 weeks of survey, in the interest of survey rigor, AECOM biologists decided to continue with a 6th week of survey within portions of the Quino survey area considered to have the greatest (if any) potential to support Quino. Portions of the Quino survey area were excluded for this additional survey effort based on the following factors: increased evidence of heavy cattle grazing, a lack of host plant populations, and sparse nectaring resources. Therefore, approximately 118.68 acres within the Quino survey area were surveyed during survey week 6 (Figure 3).

According to USFWS guidelines, habitat with active/in-use grazing and a lack of native vegetation can be excluded from protocol-level surveys. Evidence of cattle grazing was present during weeks 1 through 5, but these areas were still surveyed for 5 weeks given the presence of native vegetation in spite of active grazing. Table 3 shows the survey week, date, survey team, total number of survey days, and the number of permitted biologist survey days per week.

Table 3
Protocol Quino Survey Schedule

Survey Week	Permitted Biologist Date Survey Team		# Calendar Days	# Person Days ^A
1	03/30/11 - 03/31/11	Margaret Mulligan, Ken Osborne	2	3
2	04/04/11 - 04/05/11	Mike Couffer, Ken Osborne, Erin Bergman	2	3
3	04/13/11 - 04/15/11	Erin Bergman, Mike Couffer	3	4
4	04/18/11 - 04/20/11	Mike Couffer, Ken Osborne	3	3
5	04/26/11 - 04/28/11	Ken Osborne, Mike Couffer	3	4
6	05/02/11 - 05/04/11	Erin Bergman, Bonnie Hendricks, Margaret Mulligan	3	5

A The number of person days varied depending on weather conditions; some person days reflected here are partial days. This number only includes permitted biologists.

Results

No Quino were detected during the habitat assessment or the focused adult Quino surveys. The five most abundant butterflies found in the Quino survey area in order of abundance were Behr's metalmark (*Apodemia mormo*), common buckeye (*Junonia coenia*), Acmon blue (*Icaria acmon*), sandhill skipper (*Polites sabuleti*), and desert pearly marble (*Euchloe hyantis*). A total of 46 different butterfly and various moth species were detected within the Quino survey area, with numbers varying across survey weeks. The total abundance of



butterfly species varied across the six surveys, but was highest during survey weeks 3 through 6.

Generally, potential nectar sources increased in diversity and abundance during survey weeks 3 through 6. A summary of weekly butterfly and moth species observations is included in Appendix A. Survey-specific weather conditions and personnel are presented in Appendix B. Field data collected during protocol surveys is included in Appendix C. A list of potential nectaring sources and host plants detected during each survey week is presented in Appendix D. A list of vertebrate wildlife species detected during Quino surveys is presented in Appendix E.

The Quino survey area within the Project site was initially part of a larger survey area that was separated into three separate CPV projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of habitat assessments and Quino surveys. LanWest Solar Farm is located adjacent to the Proposed Project (on the western boundary of LanEast) and includes habitat approximately 0.5 mile west of McCain Valley Road immediately south of Interstate 8 and north of Old Highway 80. Rugged Solar Farm includes land north of Interstate 8 and on both sides of McCain Valley Road. All three project sites were surveyed at the same time for Quino (while the sites were considered one large project). Therefore, and to provide additional data, some of the appendices include combined data from the now three differentiated projects. Appendix A is identical for both LanWest and LanEast, Appendix B is identical for LanWest and LanEast, Appendix C is identical for LanWest and LanEast, Appendix D is identical for all three project sites, and Appendix E is identical for LanWest and LanEast.

During spring 2011, rare plant surveys were ongoing, concurrent with focused Quino surveys for the project. Botanists Bonnie Hendricks, Erin Bergman, Fred Sproul, Kyle Harper, Lance Woolley, Margaret Mulligan, John Messina, and Kyle Ince conducted rare plant surveys across 100% of the survey area. Botanists mapped all potential Quino larval host plants observed while completing rare plant surveys. All host plants that were detected within the survey area, including observations made by Quino surveyors during protocol surveys and by botanists during rare plant surveys within the same time frame as the Quino protocol surveys, are provided in Figure 3.

The only potential Quino host plant detected within the Quino survey area was a small population (approximately 10 individual plants) of dark-tip bird's beak (Figure 3). The species was present only as small basal rosettes and/or diminutive, immature plants in April. Dark-tip bird's beak was not expected to fully mature and bloom until July.

Discussion

No Quino were found within the Quino survey area. Although one small population of darktip bird's beak was found in the Quino survey area (Figure 3), the low abundance and late emergence of this species and the absence of dotseed plantain, Coulter's snapdragon, and



southern Chinese houses substantially diminish the potential of host resources to support a Quino population on the site. Due to above-average rainfall during the 2010/2011 wet season, host plant population growth, as exhibited at several other locations in the general vicinity of the Quino survey area, was not limited by rainfall (NOAA 2011). Given the ample winter precipitation, abundant wildflowers, springtime butterflies and moths, well coordinated timing of the survey relative to activity of local Quino populations, and extensive experience of survey biologists, AECOM is confident that our negative survey results for Quino are valid on all portions of the Quino survey area.

If you have any questions or comments regarding this letter report, please contact me at (619) 233-1454.

Sincerely,

Andrew Fisher Wildlife Biologist

Attachments: Figure 1 - Regional Map

Figure 2 – Vicinity Map

Figure 3 – Quino Habitat Assessment and Larval Host Plants Map

Appendix A – Summary of Weekly Butterfly and Moth Species

Observations During Quino Surveys

Appendix B – Daily Weather Conditions During Quino Surveys

Appendix C – Field Data Collected During Quino Surveys

Appendix D – Potential Nectaring Sources and Host Plants Detected During

Quino Surveys

Appendix E – Vertebrate Wildlife Species Detected During Quino Surveys



Certification

Qualified biologists who conducted Quino checkerspot butterfly surveys within the Quino survey area for the proposed LanEast Solar Farm Project certify that the information in this survey report fully and accurately represents the work performed. Signatures of permitted biologists (as listed in Table 1) who conducted protocol surveys (March 30, 2011 through May 4, 2011) are included below. The results of focused surveys for listed species are typically considered valid for 1 year by the resource agencies.

Erin Bergman AECOM Biologist Mike Couffer AECOM Biologist Bonnie Hendricks AECOM Biologist

Margaret Mulligan AECOM Biologist Ken Osborne AECOM Biologist

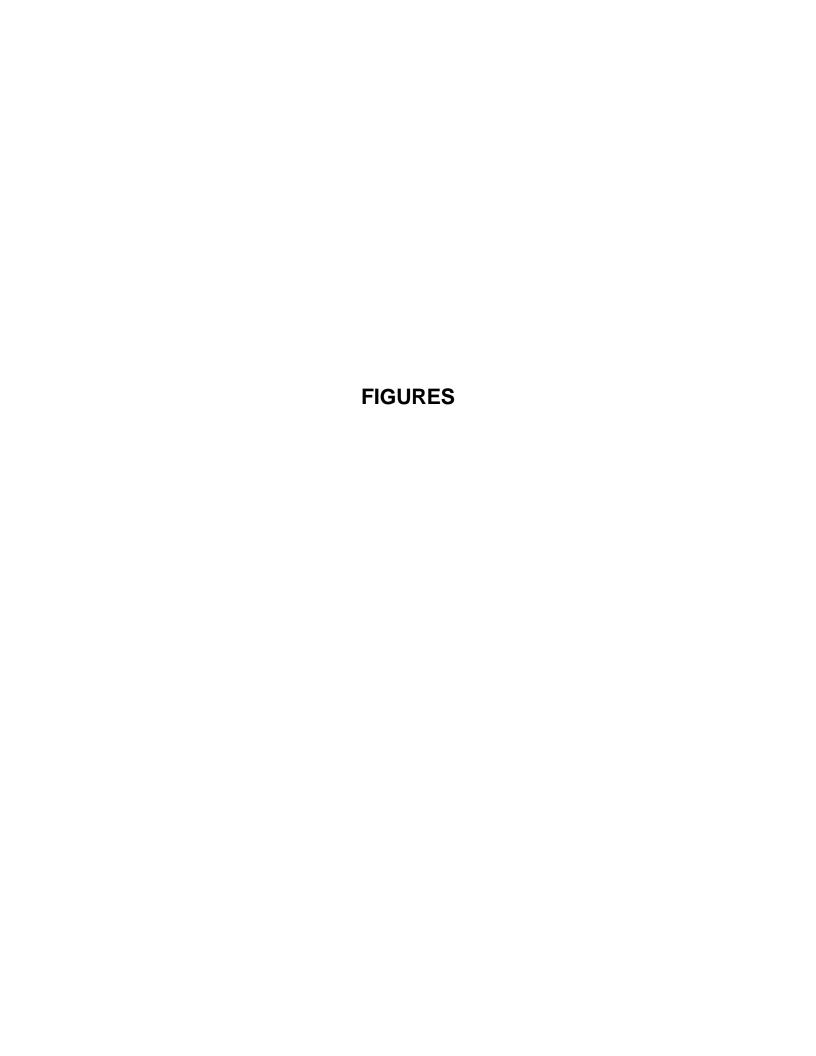


Literature Cited

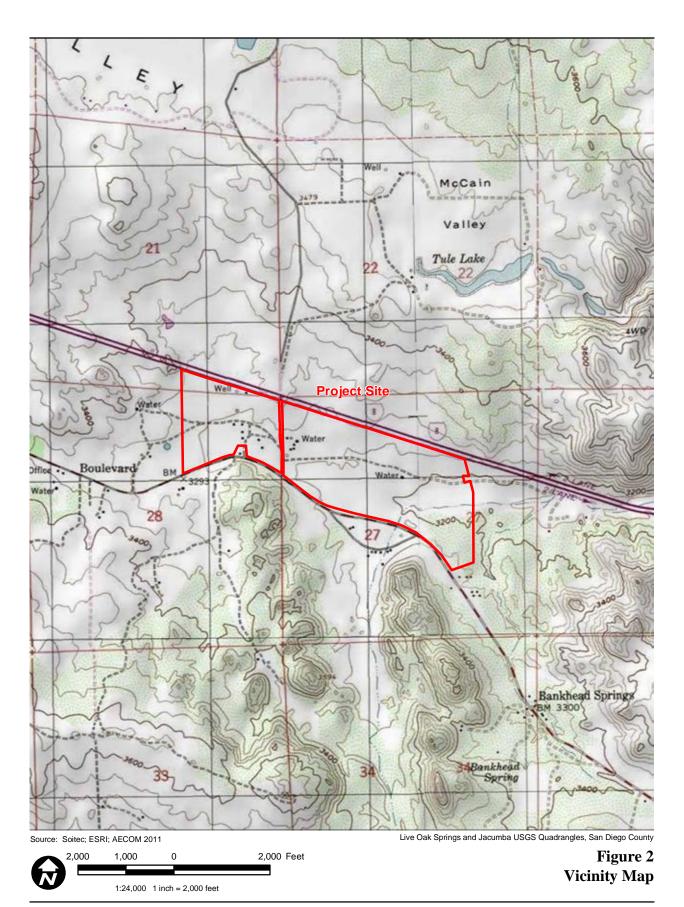
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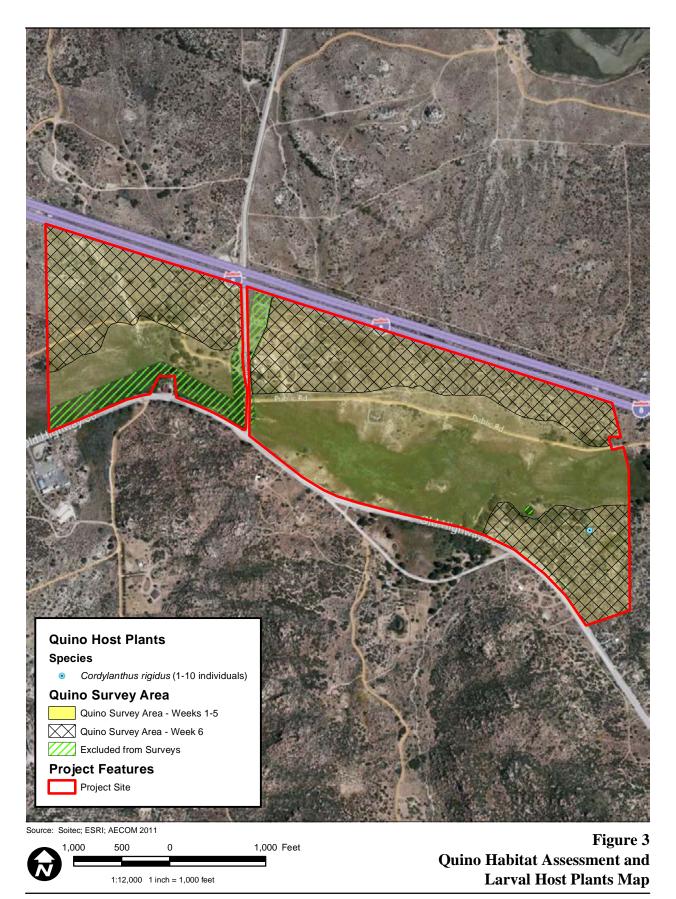


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APPENDIX A SUMMARY OF WEEKLY BUTTERFLY AND MOTH SPECIES OBSERVATIONS DURING QUINO SURVEYS

Appendix A Summary of Weekly Butterfly and Moth Species Observations During Quino Surveys^A

	Survey Week 1	Survey Week 2	Survey Week 3	Survey Week 4	Survey Week 5	Survey Week 6	TOTAL
Nymphalidae (Brushfooted Butterflies)							
Euphydryas chalcedona (Henne's checkerspot)	0	2	0	0	3	0	5
Chlosyne gabbii (Gabb's checkerspot)	0	0	0	0	1	0	1
Checkerspot sp.	0	0	0	1	0	0	1
Junonia coenia (common buckeye)	0	6	15	16	38	23	98
Vanessa annabella (west coast lady)	0	1	0	0	0	0	1
Vanessa atalanta (red admiral)	0	0	0	0	1	0	1
Vanessa cardui (painted lady)	3	1	0	0	1	0	5
Vanessa sp. (lady sp.)	0	2	2	2	0	0	6
Pieridae (Whites, Sulphurs)				l.			
Pontia sisymbrii (spring white)	0	0	0	1	0	0	1
Pontia protodice (common white)	0	7	2	1	7	3	20
Anthocharis sara (Sara orangetip)	10	20	1	0	1	3	35
Euchloe hyantis (desert pearly marble)	19	11	10	0	1	0	41
Colias eurytheme (orange sulphur)	5	6	0	1	6	4	22
Colias harfordii (Harford's sulphur)	1	8	1	1	7	10	28
Colias philodice (clouded sulphur)	0	2	0	0	0	0	2
Nathalis iole (dainty sulphur)	3	4	0	0	1	0	8
Papilionidae (Swallowtails)			•	•			
Papilio eurymedon (pale swallowtail)	0	0	0	0	2	1	3
Riodiniade (Metalmarks)			•				
Apodemia mormo (Behr's metalmark)	151	189	211	137	338	25	1,051
Lycaenidae (Hairstreaks and Blues)							
Celastrina ladon (spring azure)	0	0	0	1	0	0	1
Brephidium exile (western pygmy blue)	0	4	0	0	1	0	5
Glaucopsyche lygdamus (southern blue/silvery blue)	0	0	0	0	2	0	2
Icaria acmon (acmon blue)	10	12	14	6	21	14	77
Philotes sonorensis (sonoran blue)	0	5	1	0	0	0	6
Everes amyntula (western-tailed blue)	1	2	0	0	1	0	4
Callophrys augustinus (brown elfin)	2	0	1	0	1	0	4
Callophrys perplexa (perplexing green hairstreak)	18	14	5	0	1	0	38
Hesperiidae (Skippers)							
Atalopedes campestris (sachem)	0	0	9	0	0	0	9
Erynnis funeralis (funereal duskywing)	0	1	0	0	1	0	2
Erynnis tristis (sad duskywing)	0	1	0	0	0	0	1
Erynnis propertius (propertius duskywing)	2	3	5	3	2	4	19
Erynnis brizo (sleepy duskywing)	1	1	0	0	0	0	2
Erynnis sp. (duskywing sp.)	0	1	0	0	0	0	1
Pyrgus communis (checkered skipper)	1	3	0	0	2	0	6
Heliopetes ericetorum (northern white skipper)	0	0	0	0	2	0	2
Hesperia juba (juba skipper)	0	3	2	17	1	0	23
Polites sabuleti (sandhill skipper)	0	7	2	20	35	5	69
Philosora catullus (common sootywing)	0	2	6	1	3	0	12

	Survey Week 1	Survey Week 2	Survey Week 3	Survey Week 4	Survey Week 5	Survey Week 6	TOTAL
Moths							
Autographa californica	1	0	0	0	0	0	1
Chrismania pictipennalis	5	0	0	0	0	0	5
Drasteria divergens	1	0	0	0	0	0	1
Drasteria edwardsii	8	0	0	0	0	0	8
Drasteria pallescens	1	0	0	0	0	0	1
Drasteria tejonica	1	3	0	0	0	0	4
Euproserpinus phaeton	4	0	0	0	0	0	4
Heliothis belladona	2	0	0	2	0	0	4
Litocola sexsignata	21	0	0	0	0	0	21
Loxostege immerens	7	0	0	0	0	0	7
Schinia amarylis	2	0	0	0	0	0	2
Kodiosoma fulva	0	0	0	1	0	0	1

^A The Quino survey area (within the LanEast project site) was initially part of a larger survey area that was separated into three separate CPV projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of protocol Quino checkerspot butterfly (*Euphydryas editha quino*) surveys. LanWest Solar Farm is located adjacent to and west of the proposed project site. Rugged Solar Farm is located north of Interstate 8. All three project sites were surveyed for Quino during the same period. This list of butterfly and moth species observations represents species detected for both the LanWest and LanEast projects (but does not include observations from the Rugged Solar site).

APPENDIX B DAILY WEATHER CONDITIONS DURING QUINO SURVEYS

Appendix B
Daily Weather Conditions During Quino Surveys^A

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed Average/ Maximum ^C (mph)	Cloud Cover (%)	General Sky Condition
3/30/2011	1	Margaret Mulligan	1410	75	2-5	40	patchy
3/30/2011	1	Margaret Mulligan	1600	75	2-5	65	patchy
3/30/2011	1	Ken Osborne	0900	70	4-8	0	clear
3/30/2011	1	Ken Osborne	0910	68	0-3	0	clear
3/30/2011	1	Ken Osborne	1200	73	6-17	0	clear
3/30/2011	1	Ken Osborne	1420	74	0-4	2	high haze
3/30/2011	1	Ken Osborne	1623	73	3-7	5	haze
3/31/2011	1	Margaret Mulligan	0900	64	3-6	10	clear
3/31/2011	1	Margaret Mulligan	1110	70	2-4	10	clear
3/31/2011	1	Margaret Mulligan	1400	76	3-6	0	clear
3/31/2011	1	Margaret Mulligan	1600	78	2-4	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	0830	60	0-3	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	0900	61	1-5	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	1000	64	1-5	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	1100	69	1-7	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	1200	68	3-8	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	1300	67	3-7	0	clear
4/4/2011	2	Mike Couffer, Brennan Mulrooney ^B	1400	71	2-5	0	clear
4/5/2011	2	Erin Bergman, Brennan Mulrooney ^B	0930	-	-	0	clear
4/5/2011	2	Erin Bergman, Brennan Mulrooney ^B	1153	75	2-4	0	clear
4/5/2011	2	Erin Bergman, Brennan Mulrooney ^B	1200	77	2-5	0	clear
4/5/2011	2	Erin Bergman, Brennan Mulrooney ^B	1300	80	2-5	0	clear
4/5/2011	2	Erin Bergman, Brennan Mulrooney ^B	1400	80	2-5	0	clear
4/5/2011	2	Erin Bergman, Brennan Mulrooney ^B	1500	79	2-5	0	clear
4/5/2011	2	Ken Osborne, Erin Bergman	1153	75	2-4	0	clear
4/5/2011	2	Ken Osborne, Erin Bergman	1555	70	3-6	40	overcast
4/13/2011	3	Erin Bergman	1130	65	1-2	0	clear
4/13/2011	3	Erin Bergman	1200	66	1-2	0	clear
4/13/2011	3	Erin Bergman	1230	66	1-2	0	clear
4/13/2011	3	Erin Bergman	1300	61	3-6	0	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed Average/ Maximum ^c (mph)	Cloud Cover (%)	General Sky Condition
4/13/2011	3	Erin Bergman	1330	32	3-6	0	clear
4/13/2011	3	Erin Bergman	1400	61	4-7	0	clear
4/13/2011	3	Mike Couffer	1119	63	3-7	0	clear
4/13/2011	3	Mike Couffer	1200	62	4-9	0	clear
4/13/2011	3	Mike Couffer	1300	62	4-7	0	clear
4/13/2011	3	Mike Couffer	1400	61	4-7	0	clear
4/13/2011	3	Mike Couffer	1500	60	4-10	0	clear
4/14/2011	3	Mike Couffer	0845	60	1-2	0	clear
4/14/2011	3	Mike Couffer	0900	61	0-1	0	clear
4/14/2011	3	Mike Couffer	1000	63	0-1	0	clear
4/14/2011	3	Mike Couffer	1100	66	0-2	0	clear
4/14/2011	3	Mike Couffer	1200	68	0-4	0	clear
4/14/2011	3	Mike Couffer	1300	72	0-3	0	clear
4/14/2011	3	Mike Couffer	1400	73	0-2	0	clear
4/14/2011	3	Mike Couffer	1500	71	1-5	0	clear
4/14/2011	3	Mike Couffer	1600	71	0-2	0	clear
4/15/2011	3	Mike Couffer	0900	66	1-5	0	clear
4/15/2011	3	Mike Couffer	1000	70	1-10	0	clear
4/15/2011	3	Mike Couffer	1100	71	2-10	0	clear
4/18/2011	4	Ken Osborne	1100	60	4-5	50	patchy
4/18/2011	4	Ken Osborne	1252	67	5-12	25	overcast
4/18/2011	4	Ken Osborne	1400	69	10-19	30	overcast
4/18/2011	4	Mike Couffer	1100	60	0-4	25	patchy
4/18/2011	4	Mike Couffer	1200	68	0-4	0	clear
4/18/2011	4	Mike Couffer	1300	72	0-2	40	patchy
4/18/2011	4	Mike Couffer	1400	71	8-15	90	overcast
4/20/2011	4	Mike Couffer, James McMorran ^B	0930	64	3-6	5	clear
4/20/2011	4	Mike Couffer, James McMorran ^B	1000	71	0-3	5	clear
4/20/2011	4	Mike Couffer, James McMorran ^B Mike Couffer,	1100	73	0-5	5	clear
4/20/2011	4	James McMorran ^B	1145	75	5-9	0	clear
4/26/2011	5	Mike Couffer	1230	76	0-3	0	clear
4/26/2011	5	Mike Couffer	1300	77	0	0	clear
4/26/2011	5	Mike Couffer	1400	80	0-1	0	clear
4/26/2011	5	Mike Couffer	1500	78	2-6	0	clear
4/26/2011	5	Ken Osborne	1345	71	2-5	0	clear
4/26/2011	5	Ken Osborne	1410	72	4-5	0	clear
4/27/2011	5	Mike Couffer	0830	70	0-4	0	clear

Date	Survey Week	Personnel	Time	Temperature (°F)	Wind Speed Average/ Maximum ^c (mph)	Cloud Cover (%)	General Sky Condition
4/27/2011	5	Mike Couffer	0900	72	0-4	0	clear
4/27/2011	5	Mike Couffer	1000	73	0-4	0	clear
4/27/2011	5	Mike Couffer	1100	73	0-5	0	clear
4/27/2011	5	Mike Couffer	1200	77	1-7	0	clear
4/27/2011	5	Mike Couffer	1300	76	2-8	0	clear
4/27/2011	5	Mike Couffer	1400	74	2-6	0	clear
4/28/2011	5	Mike Couffer	0900	73	1-7	0	clear
4/28/2011	5	Mike Couffer	1000	84	0-2	0	clear
4/28/2011	5	Mike Couffer	1100	84	0-1	0	clear
4/28/2011	5	Mike Couffer	1200	79	3-10	0	clear
4/28/2011	5	Mike Couffer	1300	82	1-5	0	clear
4/28/2011	5	Mike Couffer	1400	79	3-10	0	clear
4/28/2011	5	Mike Couffer	1500	80	4-10	0	clear
5/2/2011	6	Margaret Mulligan	0900	64	4-8	0	clear
5/2/2011	6	Margaret Mulligan	1200	70	4-11	0	clear
5/2/2011	6	Erin Bergman	0850	64	4-8	0	clear
5/2/2011	6	Erin Bergman	0950	72	4-9	0	clear
5/2/2011	6	Erin Bergman	1200	74	8-10	0	clear
5/3/2011	6	Margaret Mulligan, Erin Bergman	0900	75	2-5	0	clear
5/3/2011	6	Margaret Mulligan, Erin Bergman	1130	78	3-6	0	clear
5/4/2011	6	Bonnie Hendricks	1150	84.5	3-6	0	clear
5/4/2011	6	Bonnie Hendricks	1245	88.2	4-6	0	clear
5/4/2011	6	Bonnie Hendricks	1340	89.5	5-8	0	clear
5/4/2011	6	Bonnie Hendricks	1430	95	1-3	0	clear
5/4/2011	6	Bonnie Hendricks	1530	94.5	3-5	0	clear
5/4/2011	6	Bonnie Hendricks	1600	94	4-7	0	clear

A The Quino survey area (within the LanEast project site) was initially part of a larger survey area that was separated into three separate CPV projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of protocol Quino checkerspot butterfly (*Euphydryas editha quino*) surveys. LanWest Solar Farm is located adjacent to and west of the proposed project site. Rugged Solar Farm is located north of Interstate 8. All three project sites were surveyed for Quino during the same period. This table of daily weather conditions contains weather information for both the LanWest and LanEast projects, but does not include weather information from the Rugged Solar site.

B Supervised biologist

C At times, wind gusts occurred that were more than 15 mph, but this was never sustained. If sustained winds were 15 mph or higher, surveys were stopped.

APPENDIX C FIELD DATA COLLECTED DURING QUINO SURVEYS

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet

Recorder:_ <u>Mavq</u>	Recorder: Margre Manifest Addit Person:			Date: <u>3 30 4 {</u> GPS Unit :	12
Project: Concentrix Sc	lar Project	Map #: <u>↑</u> Sur	vey Sxn:	QCB Protocol Survey # of	. 5
TIME (24-hour)	Tomp (F*)	Wind (avgimex)	% 00	- Sky	
Start PQ _	70%	7-5	40		
	75 <u>°</u> 75] · 2			- —
	F 72		<u> 125 </u>		
		<u> </u>	L <u> </u>	clear patchy overcest druzzle shower	
		ļ		close patchy overcast drucks shower	
			-		
		 	-	clear patchy overcest duzzle shower	
· — — —		·	<u> </u>		_
End		<u> </u>		clear guichy pyercest 617710 shewer	
Habitat On-site (circle): does	n soils, militops	s, ridges rock outco	ops soll crusts.	clay soils, old roads, various nectar sources	
Nymphalidae (Brushfooted		<u> </u>	Total		Total
			<u> </u>	Hesperfidae (Skippers)	ᆜ _
Euphydryas editha (Quino			+	Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcedona (†				Erynnis Iristis (Sad Duskywing)]
Thessalia leanire (Wright's		<u>" </u>		Erynnis propertius (Propertius Duskywing)	
Chlosyne californica (Calif				Erynnis brizo (Sleepy Duskeywing)	-
Chlosyne gabbii (Gabb's C				Pyrgus communis(Checkered Skipper)	T
Phyciodes mylitta (Mylitta				Hesperia Jubia (Jubia Skipper)	\top
Junonia coenia (Common			T	Polites sabulati (Sandhill Skipper)	
Vanossa annabella (West				Megathymidae (Glant Skippers)	-
Vanessa atalanta (Red Ad				Megalhymus yuccee (Yucca Giant Skipper)	-†
Vanessa cardui (Painted I	• •		<u> </u>		
Vanessa virginiensis (Virgi			1	Other Butterfiles:	
Nymphalis californica (Ca	lifornia Tortois	seshell)			
Danaidae (Milkweed Butter	rflies)				+ -
Danaus plexippus (Monam	:h)			<u> </u>	-
Danaus gilippus (Queen)			—··· —	† ·—· ·— — .— ·	
Satyridae (Satyrs)				 · · · · · · · · · · · · · · · · · · ·	+
Coenonympha californica	(Common Cal	ifornia Ringlet)	". 	·	+
Pleridae (Whites, Suiphurs	i)			<u> </u>	
Pieris ropae (Cabbage Wh	irte)	n		 	
Pontia sisymbrii (Spring W			— <u> </u>		I
Pontla beckerii (Beker's W			<u> </u>	· · · · · · · · · · · · · · · · · · ·	-i
Pontia protodice (Common			· · ·—	+	ᅷ┈
Anthocheris sura (Sara Ora			- 	 	<u> </u>
Anthocharis cethura (Felde					<u> </u>
Euchloe hyantis (Desert Pe		<u>, </u>	—· 	 (1) 	+
Colias eurytheme (Orange			— I <u>*</u> — -	 	+ $-$!
Colles harfordii (Harford's S				<u> </u>	— ∣
Nathalis iole (Dainty Sulphi				 	-
Papillonidae (Swallowtails)				Notes:	<u> </u>
Papilio polyxenes (Desert 6		12ih		NOTES:	- ,
Papilio eurymedon (Pale sy		14117		 	
Papilio rutulus(Western Tig		in ·— — —	— <u> </u>	<u> </u>	↓
Riodiniade (Metalmarks)	· · · · ·	"'	— ;: ·——	<u>├</u>	⊥¦
Apodemia mormo (Behr's h	Viotalmatki				ļ !
Lycaenidae (Hairstreaks an			Ministri	<u></u>	i
Celastrina ladon (Spring Az		· <u> </u>	· 	<u> </u>	
Leptoles marina(Marine Bit		··-			_]
Brephidium exile (Western			— l	+	I
Glaucopsycho lygdamus (S	cyginy bive)	(Cibrage Alice)			
Hemiargus ceraunus (Edwa		Silvery blue)	— . — –	l — — — — — — — — — — — — — — — — — — —	T
icaria acmon (Acmon Blue)					
Philotes sonorensis(Sonore		<u>.</u>	ļ		
Callophrys augustinus (Bro					1 1
Callophrys dumetorum (Per		<u> Nairstreak)</u>			·I 1
Strymon melinus (Gray Hai		-			† — †
Attides helosus (Great Pum	ile Hairstreak)				+
-	_				+

riease Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia cancolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

-	Antirrhinum coulterianum	= AC Collinsia concolor = CC
7	Amsinckla menziesli	Rancher's Fiddleneck
D.	Antirrhimum coulterianum	Coulter's Snapdragon
· • ·	Antimhinum nuttallianum	Nuttail's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milkweed
o.	Boechera sp.	Rock Cress
:3	Celandrinia ciliata	Red Maids
o	Calochertus concolor	Golden-bowl Mariposa Lily
n	Calystegia longipos	Morning-glory
	Camissonia sp.	Sun Cup
G	Castilleja exerta	Paintbrush
.0	Caulanthus helerophyllus	San Diego Jewolitower
U	Caulanthus simulans	
.0.		Payson's Caulanthus Buck Brush
	Ceenothus cuneatus	
0	Coanothus greggil	Cup-teaf-filac
٥.	Ceanothus leucodermis	Chaparral Whitethorn
O	Chaenactis artemisiifolia	White Pincushion
. •	Chaenactis glabriuscula	Yellow Pincushion
	Clemalis sp.	Clematis
0	Collinsia concelor	Southern Chinese Houses
٥	Cordylanthus rigidus	Dark-tip Bird's Beak
Ó.	Coreopsis californica	California Coreopsis
J.	Corethrogyno filaginifolia	Common Sand-aster
,>×	Cryptenthe sp. : .	Cryplantha
9	Cucurbile footidissima	Calabazilla
سينحك	Descurainia sp.	Tansy-mustard
ò	Dicentra chrysantha	Golden Ear-drops
a.	Dichelostemma capitalum	Blue Dicks
a	Dudleye sp.	Dudleya
a	Emmenanthe pandulifera	. Whispering Balls
Ω	, Eriastrum sp.	Woolly-star
\mathbf{Y}	Encamerta sp.	Goldenbush
6	Erigeron foliosus	Leafy Daisy
o.	Eriodictyon trichocalyx	Hairy Yerba Santa
D.	Erlogonum fasciculatum	Inland California Buckwheat
é.	Eriogonum sp.	Buckwheat
0	Erlophyllum sp.	Long-stem Golden-yerrow
×	Erodium cicularium*	Red-stem Storksbill
0	Erysismum cepitatum	Western Wallflower
0	Eschscholzla californica	California Poppy
n	Eucrypta chrysanthemitolia	Spotted Hideseed
·o :	Euthamia occidentalis	Western Goldenrod
0	Garrya vealchii	Canyon Silk Tassel
0	Gilia sp.	Gilla
v	Gnaphelium	Cudweed
ñ	Guillenia laslophylla	California Mustard
	Gulierrezia sarothrae	Cantornia Musigin
		Broom Malchweed
٥.	Heliotropium curessevicum	Sall Heliotrope
<u>.</u>	Hirshfeldia incena	Short-pod Mustard
0	Lemium amplexicaule	Henbit
Z.	Lasthenia gracilis	Common Goldfields
o'.	Layla glandulosa	White Layia
0.	Lepidium sp.	Pepperweed
	Linenthus bellus	Desert Beauty
ο.	Linanthus dichotomus	Evening Snow
0	L'onicera subspicata	Johnston's Honeysuckle
o	Malacothrix californica	California Dandelion
0]	Malacothrix clevelandil	Cleveland's Malacothrix
o	Marah mecrocarpus	Wild-cucumber
o	Marrubium vulgare*	Horehound
σ	Matricaria matricarioides*	Common Pineapple-weed
0	Mentzelia veatchiana	Veatch's Stick-leak
0	Microsteris gracilis	Siender Phiox
Ģ.	Mimulus sp.	Monkeyflower
0	Memoralle menzeisii	Small-Houser Baby Blue Even

Nemophila menzeisii

Orohanche bulbosa

o	Osmadenia tenella	Osmadenia
·o '	Peeonle californica	California Pagny
0	Peclocarya sp.	Pectocarya
o i	Phaceila sp.	Phacelia
0	Pholistoma membranaceum	White Fiesta Flower
كها	⁷ Plaglobothrys sp.	Popcornflower
o i	Plantago patagonica	Desert Plantain
Ð	Platystemon californicus	Cream Cups
o	Prunus ilicifotia	Holly-leaf Cherry
9	Refinesquia neomexicana	Desert Chicory
o	Ribes quercetorum	Oak Gooseberry
0	Romipe nasturtium-aquaticum	Water-cress
a	Rosa celifornica	California Rose
91	Saltugilia australis	Southern Gilla
o	Senecio californicus	California Bulterweed
0	Senecio flaccidus	Butterweed
n	Sidalcea malvaeffora	Checker-bloom
0	Sisymbrium sp.	Tumble Mustard
o	Solidago californica	California Goldenrod
0	Stachys ajugoides	Hedge-nettle
0	Stephenomeria sp.	Wreathplant
ъ.,	Streptanthus compestris	Southern Jewelflower
c	Stylocline gnaphalioldes	Evertasting Nest-straw
0,	Telradymia comosa	Cotton-thorn
Æ.	Thysanocarpus sp.	Fringepod
ο.	Trichostemme parishii	Mountain Bluecuris
ο.	Tropidocarpum gracile	Slender Dobie-pod
•	Uropappus lindleyi	Silver Puffs
¢.	Viola purpurea	Oal: Yellow Violet
ο ΄		
0		
0	Other Flowering Plants:	internal de la companya della companya de la companya de la companya della compan
O	1.47V3 5/49 G V 3	

tornes renaminas Rhus triabables Lapinas bicclor

Rare Wildlife or Rare Plants:

GOMEN VISCIDA

102 20+ 0/2014 103 20+ 0/2014

Astrogalus Bouglass Porstados

MMLB100 Chrolanture amp

0. 0

Small-flower Baby Blue Eyes

Chaparral Broom-rape

streptantous compensations

Nest = Raven & Sec map

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet 144854 mi un Est 30/200 Recorder K. HOTA Add'l Person: GPS Unit : / 0 Concentrix Solar Project Map #: • Survey Sxn: QCB Protocol Survey # TIME (24-hour) Temp (F°): % CC Wind (avg/max) 68 <u>ت - 3</u> CHR Datchy. 70 dozale 124 1420 draz88 scower drez's shower 73 End /623 5 7 4. Habitat On-site (circle): open soils, hilltops, ridges, rock outcrops, soil crusts, clay soils, old roads, various nectar sources Total Total Nymphalidae (Brushfooted Butterflies) Hesperlidae (Skippers) Euphydryas editha (Quino Checkerspot) Erynnis funeralis (Funereal Duskywing) Euphydryas chalcedona (Henna's Checkerspot) Erynnis tristis (Sad Duskywing) Thessalia teanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) // Chlosyne californica (California Patch) Erynnis brizo (Steepy Duskeywing) / Chlosyne gəbbii (Gabb's Checkerspot) Pyrgus communic(Checkered Skipper) Phyciodes mylitte (Mylitta Crescent) Hesperia jubia (Jubia Skipper) Junonia coenia (Common Buckeye) Politos sabuleti (Sandhill Skipper) Vanessa annabella (West Coast Lady Megathymidae (Giant Skippers) Vanessa atalanta (Red Admiral) Megathymus yuccae (Yucca Giant Skipper) Vanessa cardui (Painted Lady) Vanesse virginionsis (Virginia Lady) Other Butterflies: Nymphalis californica (California Tortoiseshell) Danaldae (Mlikweed Butterflies) Danaus plexippus (Monarch) Danaus gilippus (Queen) Mother Satyridae (Satyrs) Fexignata Coenonympha californica (Common California Ringlet) Pieridae (Whites, Sulphurs) 4 Pieris rapae (Cabbage White) Pontio sisymbrii (Spring White) Pontia beckerii (Beker's White) Pentia protodice (Common White) Anthocharis sera (Sara Orangetip) / 7 Anthocharis cethura (Felder's Orangetip) Euchice hyentis (Desert Pearly Marble) / 1/1/1/ Colias curytheme (Orange Sulphur) 1444 Colias harfordii (Harford's Sulphur) Nathalls lole (Dainty Sulphur) Papilionidae (Swallowtails) Notes: Pepilio polyxenes (Desert Black Swallowtall) Papilio eurymedon (Pate swallowtail) Papilio rululus(Western Tiger Syrallov/tail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) かんぱんしょい Lycaenidae (Hairstreaks and Blues) Celestrine ladon (Spring Azure) Leptoles marina(Marine Blue)

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= C. parplexa

Brephidium exile (Western Pygmy Blue)

Hemiergus ceraunus (Edward's Blue) Iceria ecmon (Acmon Blue) /// [[[[

Philotes sonorensis(Sonoran Blue)
Callophrys augustinus (Brown Ellin)

Strymon melinus (Gray Hairstreak)
Atlides halesus (Great Purple Hairstreak)

Glaucopsyche lygdamus (Southern Blue/Silvery blue)

Callophrys dumetorum (Perplaxing Green Hairstreak) /// ########

Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) 50 ---

ase Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

LEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonico = PP

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: 0 a

	January 1	
	^ Amsinckia menzlesii	Rancher's Flddleneck
	Antirrhimum coulterianum	Coulter's Snapdragon
0	Antiminum nuttellianum	Nuttall's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milkweed
.0	Boechera sp. Calandrinia ciliata	Rock Cress
۰	Calochortus concolor	Red Maids
	Calystegia longipes	Golden-bowl Mariposa Lily Morning-glory
		Sun Cup
С	Castilleja exerta	Paintbrush
'n.	Caulanthus helerophyllus	San Diego Jewelflower
o	Ceulenthus simulans	Payson's Caulanthus
6	Ceanothus cuneetus	Buck Brush
0	Ceenothus groggii	Cup-leaf-lilac
α	Ceanothus leucodermis	Chaparral Whitelhorn
n	Chaenactis artemisiifolia	White Pincushion
Ø.	Chaeriectis glabriuscula	Yellow Pincushion
D.	Clematis sp.	Clematis
်ဂ	Collinsia concolor	Southern Chinese Houses
ο.	Cordylanthus rigidus	Dark-tip Bird's Beak
∵0 .		California Coreopsis :
	Corethrogyne filaginifolia	Common Sand-asier
0	Cryptentha sp.	Cryptantha
0	Cucurbita foetidissima Descurainie so.	Calabazilla
0	Dicentra chrysantha	Tansy-mustard
0	Dichelostemma capitatum	Golden Ear-drops Blue Dicks
a	Dudicya sp.	Dudleya
.0	Emmenanthe pendulifera	Whispering Bells
0	Eriastrum sp.	Woolly-star
2	Encamerie so limarifolia	Goldenbush
0	Erigeron foliosus	Leafy Daisy
.0	Erlodictyon trichocetyx	Hairy Yerba Santa
9	Eriogenum fasciculatum	Inland California Buckwheat
o.	Enoganum sp.	Buckwheat
9	Eriophyllum sp.	Long-stem Golden-yarrow
1	Erodium cicutarium	Red-stem Storksbill
٥.	Erysismum capitatum	Western Wallflower
٥.		California Poppy
٥	Eucrypta chrysanthemifolia Euthamia occidentelis	Spotted Hideseed Western Goldenrod
a	Garrya veatchii	Canyon Silk Tassel
·0:	Gilla sp.	Gilia
n.	Gnaphalium	Cudweed
:n	Guillenia lasiophylla	California Mustard
0	Gulierrezia sarothrae	Broom Matchweed
6.		Salt Heliotrope
٥.	Hirshfeldia incana	Short-pod Mustard
0	Lemium amplexicaule	Henbit
-	Lasthenia gracilis	Common Goldfields
سسملنا	Layia glandulosa	White Layis
0	Lepidium sp.	Pepperweed
o	Linanthus bellus	Desert Beauty
٥.	Linenthus dichotomus	Evening Snow
a.	Lonicera subspicata	Johnston's Honeysuckle
O	Malacothrix californica	California Dandelion
O	Malacolfirix clevelandii	Cleveland's Malacothrix
.0	Marah macrocarpus	Wild-cucumber
.0	Marrubium vulgare	Horehound
ņ.	Matricaria matricarioides*	Common Pineapple-weed
ъ.	Mentzelia veatchiana Microeleria granitis	Veatch's Stick-teak
0	Microsteris gracilis Mimulus sp.	Stender Phiox Monkeyflower
ņ.	Nemophile menzeisii	Small-flower Baby Blue Eyes
ő.	Orobanche bulbosa	Chaparral Broom-rape
···	A-A-LALIANA WAWAGA :	Shapana District App

9	Osmadenia tenetta	Osmadenia
٥	Paeonia californica	California Peony
D	Pectocarye sp.	Pectocarya
بهو	Phecelia sp	Phacella
0	Pholisloma membranaceum	White Flesta Flower
سيميا	Plagiobothrys sp.	Popcornflower
0	Plantago patagonica	Desert Plantain
ю.	Platystemon californicus	Cream Cups
0	Prunus ilicifolia	Holly-leaf Cherry
۰.	Rafinasquia neomexicana	Desert Chicory
9	Ribes quercetorum	Oak Gooseberry
ο.	Ronipe nasturtium-equaticum	Water-cress
Q.	Rosa californica	California Rose
٥.	Saltugilia australis	Southern Gilia
9	Senecio californicus	California Butterweed
a	Senecio flaccidus	Butterweed
a	Sidelcea melveellora	Chacker-bloom
-	Slsymbrium sp.	Tumble Mustard
0	Solidago californica	California Goldenrod
0	Stachys ajugoides	Hedge-nettle
0	Stephanomeria sp.	Wreathplant
O.	Streptanthus campestris	Southern Jewelflower
O	Stylocline gnaphalioides	Everlasting Nest-strate
o	Tetradymia comosa	Cotion-thorn
э	Thysanocarpus sp.	Fringepod
ω	Trichoslenima parishii	Mountain Bluecuns
٥.	Tropidocarpum gracile	Stender Dobte-pod
0	Uropappus lindleyi	Silver Puffs
o	Viole purpures	Oak Yellow Violat
. 🌣		

o. Other Flowering Plants:

Rhus tvilabata

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet

Recorder: Maya, e.,	Molliga	✓ Add'l Person;		Date: 3:3_1\	GPS Unit : 5
Project: Concentrix So	lar Project	Map #:Sur	vey Sxn:	QCB Protocol Survey #	of5_
TIME (24-hour)	Temp (F*):	Wind (avg/max)	% cc		
Stert Diff. C	<i>#</i>	3-6-	10		denote di
	105-	2-4			dozzle shower
- /400		3-4	L-4,4 - 1		dizzia <u>show</u> ar
1600	-120 (12)			Soor) pateny dvorepast	
<u> </u>	1 <u>8 F</u>	7-4-		clos colony owycosi	drizzle shower
		<u> </u>		c!ear polichy overcast	ರ್ಷನ್ ಚೀಯ್ಯ
<u> </u>					
End			1		drizzko sho <u>wer</u>
	soils: hillane	e eldan rank instan		clay soils, old roads, various nectar source	<u> 6/i27lg shower</u>
~	•	. roges took oaton	op <u>s, ≽o⊪</u> crosis, Total	May soile, oto roads; various nectar source	:s-:
Nymphalidae (Brushfooted				Hesperlidae (Skippers)	
Euphydryes edithe (Quino			· —	Erynnis funeralis (Funereal Duskywin	<u>a1 </u>
Euphydryas chalcedona (H				Erynnis tristis (Sad Duskywing)	" ·— — · · <u>]</u> — ·
Thessalia leanira (Wright's) ·	- † -	Erynnis propertius (Propertius Dusky	
Chlosyne californica (Califo	mla Patch)	· — · · — ·		Erynnis brizo (Sleepy Duskeywing)	
Chlosyne gabbii (Gabb's C	heckerspot)			Pyrgus communis(Checkered Skippe	<u>r)</u>
Phyciodes mylitte (Mylitta C	Crescent)			Hesperia jubia (Jubia Skipper)	· ' -
Junonia coenia (Common E	Buckeye)		1-	Polites sabuleti (Sandhill Skipper)	—— — —
Vanessa annabella (West (Coast Lady)			(Megathymidae (Glant Skippers)	<u> </u>
Vanessa atalanta (Red Adr	nıral)		$-\vdash$	Megathymus yuccae (Yucca Giant Sk	denort — ·
Vanessa cardui (Painted L			-+-	Joedac (1 deca Graffe Gr	ipper)
Vanessa virginiensis (Virgin	nia Lady)		— 	Other Butterflies:	·
Nymphalis californica (Cali	ifornia Tortois	eshell)			
Danaldae (Milkweed Butter	flies):	· · · · · · · · · · · · · · · · · · ·	:: 	†	- — i ·—
Danaus plexippus (Monarci	h)		- + -	+	— — · — —
Danaus gilippus (Queen)	·		— <u> </u> —		
Satyridae (Satyrs)			-+-	 	
Coenonympha californica (t	Commun Call	(orois Ringlet)		 	
Pieridae (Whites, Sulphurs)			·	·	-
Pieris rapoe (Cabbage Whil	ia)			 	
Pontia sisymbrii (Spring Wh	(le)		— - -	†	·— — ·— –
Pontie beckerii (B ék er's Wh	ile) V		· + ·-		·— ·— ·— ·
Pontia protodice (Common	Whi te)		_ #	 	- — — — -
Anthocharis sara (Sara Ora	ngetip)		111-111	·	<u></u>
Anthocharis cethura (Felder	's Orangetlp)		—. 	<u> </u>	——————————————————————————————————————
Euchloe hyantis (Desert Per	ariy Marbie)		17-1	,	
Colias ourythema (Orange \$	Sulphur) Jan		— <u>23</u>	Ⴗ-·	
Colias harfordii (Harford's S	ulphur) –		22	Nor-7	· ·— — ·— ·
Nathalis iole (Dainty Sulphu	i) v (**	·		 	— — — —
Papilionidae (Swallowtails)		· .	146	Notes:	
Papilio polyxenes (Desert B	leck Swallow	lail)	-		
Papilio eurymedon (Pale sw	rallowtail)		-		
Papilio rululus(Western Tige		<u> </u>	$-\vdash -$	· · ·-	·
Riodiniade (Metalmarks)	-	' 		<u> </u>	··
Apodemie mormo (Behr's M	letalmark)	· · · · · · · · · · · · · · · · · · ·	N. Ind	THE THE PART OF THE LAND	residential resident
Lycaenidae (Hairstreaks and		······································			## ###################################
Celestrine ladon (Spring Azo	ure)	<u> </u>	_	- 	<u>-</u>
Leptotes marina(Marine Blue				 	
Brephidium exile (Western F			- +		·— · —
Glaucopsyche lygdamus (Sc	outhern Blue/S	Silvery blue)	- +	†· — — — — — — — — — — — — — — — — — —	·
Hemiergus ceraunus (Edwa	rd's Blue)		- - -	 	
Icaria acmon (Acmon Blue)			— <u></u> —	<u> </u>	
Philotes sonoronsis(Sonorar	n Blue)		-	 	
Callophrys augustinus (Brow				 	——— — —
Callophrys dumetorum (Per	lexing Green	Hairstreak)	·	<u> </u>	
Strymon melinus (Gray Hairstreak)					——· ·— — .—
Attides halesus (Great Purple Hairstreak)					
EVEVET AMM		was Francis	\{\ -		
- 	<u> </u>	<u> </u>	<u> </u>	I	

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actions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP Antirrhinum coulterianum = AC

	PARTITION COORTELIANT P	10 000000000000000000000000000000000000
	4	Desired Floring
×	Amslnckie menziesti	Rancher's Flddteneck
: a:	Antirrhimum coulterianum	Coulter's Snapdragon
	Antirrhinum nuttallianum Asclenias fascicularis	Nuttati's Snapdragon Narrow-leaf Milkweed
۰		Rock Cress
*	Boechers sp.	Red Maids
	Calandrinia ciliata Calochortus concolor	Golden-bowl Manposa Elly
0	Calystegia longipes	Morning-glory
	Camissonia sp.	Sun Cup
⅗	Castilleja exertes	Paintbrush
100	Caulanthus helerophyllus	San Diego Jewelflower
	Caulanthus simulans	Payson's Caulanthus
0	Ceanothus cuneetus	Buck Brush
X.	Ceanothus greggli	Cup-teaf-lilac
0	Ceanothus leucodermis	Chaparral Whitethorn
'n	Chaenactis artemisiifolia	White Pincushion
0	Cheenectis glabriuscula	Yellow Pincushion
0	Clomatis sp.	Clematis
∶₀'.	Collinsia concolor	Southern Chinese Houses
Ď.	Cordylanthus rigidus	Dark-tip Bird's Beak
×	Coreopsis californica	California Coreopsis
Ta .	Cerethrogyne fileginifolia	Common Sand-aster
X	Cryptenthe sp.	Cryptantha
ِ ہ َ	, Cucurbita foetidissima	Calabazilla
	Descurainte sp.	Tansy-mustard
0	Dicentra chrysantha	Golden Ear-drops
O:	Dicheloslemma capitatum	Blue Dicks
. n	Dudleya sp.	Dudleya
•	Emmenenthe pendulifera	Whispering Bells
×	Eriastrum sp.	Woolly-star Goldenuush
10	Ericameria sp. (menn 1911) Erigeron foliosus	Leafy Daisy
. 0	Eriodictyon trichicallyx	Hairy Yerba Santa
0	Eriogonum fasciculatum	Inland California Buckwheat
207	Eriogonum sp.	Buckwheat
1	Eriophyllum & Carlos Ca	Long start Outcomyanow
×	Erodium cicutarium	Red-stem Starksbill
(°)	Erysismum capitalum	Western Wallflower
.0	Eschscholzia californica	California Poppy
. 0	Eucrypta chrysanthemifolia	Spotted Hideseed
٠.٥	Euthamia occidentalis	Western Goldenrod
×		Canyon Silk Tassel
. 0	Glila sp.	Gilia Cudweed
۰	Gnaphalium	Cudweed 50%
·a :	Guillenia Insiophylle	California Mustard
	Gulierrezia serolhrae	California Mustard Broom Matchiveed Salt Hellotrope
10.	Heliotroprum curessavicum	
· 🖔	Hirshfeldia Incena Lamium amplexicaule	Short-pod Mustard Henbit
10/	Lasthenia gracilis	Common Goldfields
	Layia glandulosa	White Layia
*	Lepidium sp.	Pepperweed
Ü	Linanthus bellus	Desert Beauty
~	Linanthus dichotomus	Evening Snow
. 0 :	Lonicera subspicata	Johnston's Honeysuckle
0	Malacolhrix californica	California Dandelion
	Malacoltnix clevelandji	Cleveland's Malacothrix
U	Marah macrocarpus	Wild-cucumber
ΰ.	Marrublum vulgare*	Horehound
×	Matricarle matricarloides*	Common Pineapple-weed
0	Menizelia vealchiana	Veatch's Stick-teak
n	Microsteris gracilis	Slander Phiox
. [0	Mimulus sp.	Monkeyflower
'n.	Nemophila menzeisii	Small-flower Baby Blue Eyes
	Orohancha bulbosa	Chaparral Broom-rape

Chaparral Broom-rape

Nemophila menzeisii Orobanche bulbosa

	Osmadenia tenella	Oşmadenia
	Paeonia californica	California Peony
4	Peclocarya sp.	Pectocarya
	Phacelia sp.	Phacelia
	Pholistoma membranaceum	White Fiests Flower
÷	Plagiobothrys sp.	Popcornflower
•	Plantago patagonica	Desert Plantain
	Platystemon californicus	Cream Cups
	Prunus ilicifolia	Holly-leaf Cherry
	Rafinesquie neomexicana	Desert Chicory
	Ribes quercetorum	Oak Gooseberry
	Ronipe nasturtlum-equaticum	Water-cress
	Rosa celifornica	California Rose
	Saltugilia australis	Southern Gilla
	Senecio catifornicus	California Butterweed
1	Senecio flaccidus	Butterweed
ļ	Sidelcee malvaeflora	Checker-bloom
رم	Sisymbrium sp.	Tumble Mustard 🕟 🗀
-	Solidago californica	California Goldenrod
	Stachys ajugoides	Hedge-nettle
	Stephanomeria sp.	Wreathplant
	Streptanthus campestris	Southern Jewelflower
	Stylocline gnaphelloides	Everlasting Nest-straw
:	Tetradymia comosa	Cotton-thorn
	Thysanocarpus sp.	Fringepod
	Trichostemma parishii	Mountain Bluecurls
	Tropidocerpum gracile	Stender Dobie-pod
	Uropappus lindleyi	Silver Puffs
	Viola purpurea	Oak Yellow Violet
٠.		
	Other Flowering Plants:	

Tarayacum offina -e

Rare Wildlife or Rare Plants: Gerraa viscida MAGNOI - OT

Astrong Is douglass MM A-201-

Linanthus beilus

Quino Checkerspot Butterfly Protocol Survey -- Field Data Sheet

Recorder: MIKE Couffee Add'l Person: BRENNAN WILLOONY Date: 4 APRIL, 2011 GPS Unit: 20 Project: Concentrix Solar Project_Map #: 💪 Survey Sxn: QCB Protocol Survey # TIME (24-later) Temp (F*): Wind (avg/max) % CC Sky 4°00) start_ _0830 HRS O dizzle slative? overcast 610F 0900 ... 9 (Gener overcas: d27758 ৬५º೯ Ø 1000 evarras? droste ATATYAN: 690F d 1100 drzas overcast **SHOWB** 68°F 1200 ar dnzďe 1300 70F W drzzło gyarcasi च्या०⊬ 1400 doar Habital On-sile (circle): open soils; hilliops; ridges, rock ovicrops; soil crusts, clay soils, old roads, various nectar sources Total Total Nymphalidae (Brushfooted Butterflies) Hesperiidae (Skippers) Euphydryas editha (Quino Checkerspot) Erynnis funeralls (Funereal Duskywing) Euphydryes chalcodona (Henne's Checkerspot) Erynnis tristis (Sad Duskywing) Thessalia leanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californica (California Patch) Erynnis brizo (Steepy Duskeywing) Chlosyne gabbii (Gabb's Checkerspot) Pyrgus communis(Checkered Skipper) Phyciodes mylitta (Mylitta Crescent) Hesperia jubia (Jubia Skipper) Junonia coenia (Common Buckeye) Politos sabuleti (Sandhill Skipper) Vanessa annabolia (West Coast Lady Megathymidae (Glant Skippers) Vanessa atalanta (Red Admiral) Megalhymus yuccae (Yucca Giant Skipper). Vanessa cardui (Painted Lady) Other Butterflies: Vanessa virginiensis (Virginia Lady) Nymphalis californica (California Tortoiseshell) COMMON SOOTYWING ಖ Danaidae (Milkweed Butterflies) UANESSA SP. 3 Danaus plexippus (Monarch) <u>Cloubless</u> SULPHURL) Danaus gilippus (Queen) Satyridae (Satyrs) Coenonympha californica (Common California Ringlet) Pieridae (Whites, Sulphurs) Pieris rapae (Cabbage White) Pontia sisymbrii (Spring White) Pontia beckerii (Beker's White) Pontia protodice (Common White) Anthocharis sara (Sara Orangetip) Anthocharis cethura (Felder's Orangetip) Euchloe hyentis (Desert Pearly Marble) Colles eurytheme (Orange Sviphur) Colias harfordii (Harford's Sulphur) Nathalis iole (Dainty Sulphur) Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowfail) 子BOF, WIND=ダラリ刑例, CLEAR Papillo eurymedon (Pale swallowtail) 73°F, WIND- Ø-> 2MPH CLEAR Papilio rutulus(Western Tiger Swallowfail) Rlodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) 100 Lycaenidae (Hairstreaks and Blues) Celastrina tadon (Spring Azure) Leptotes marina(Marine Blue) Brephidium exile (Western Pygmy Blue) Glaucopsyche lygdamus (Southern Blue/Silvery blue) Homiargus coraunus (Edward's Blue) Icaria acmon (Acmon Blue) 0 Philotes sonorensis(Sonoran Blue) Callophrys augustinus (Brown Elfin) Callophrys dumetorum (Perolexing Green Hairstreak) ₃ Strymon melinus (Gray Hairstreak) Allides halesus (Great Purple Hairstreak)

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WESTERN TAILED BIVE

ıtiai Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) Jons:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail,

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Piontago patagonica = PP

_	Antirrhinum coulterianum =	AC Collinsia concolor = Co
1,0	Amsinckia menziesii	Rancher's Fiddleneck
·	Antirrhimum coulterianum	Coulter's Snapdragon
6	Antirrhinum nuttallianum	Nuttall's Snapdragon
٥	Asclepies fescicularis	Narrow-leaf Milkweed
'n	Boechera sp.	Rock Cress
n	Cəlandrinia ciliələ	Red Maids
	Calochartus concolor	Golden-bowl Manposa Lily
0	Calyslegia longipes	Morning-glory
٥.	Camissonia sp.	Sun Cup
0	Castilleja exerta	Paintbrush
a.	Caulanthus heterophyllus	San Diego Jewelflower
С	Caulanthus simulans	Payson's Caulanthus
à	Ceanothus cuneatus	Buck Brush
0	Ceanothus greggii	Cup-leaf-litac
Ģ.	Ceanothus leucodermis	Chaparral Whitelhorn
- P.	Chaenactis artemisiifolia	White Pincushion
.÷.	Chaenactis glebriuscule	Yellow Pincushlon
۰.	Clematis sp	Clematis
0	Collinsia concolor	Southern Chinese Houses
0	Cordylanthus rigidus	Dark-tip Bird's Beak
	Coreopsis californica	California Coreopsis
. O	Corethrogyne filaginifolia Cryptantha sp.	Common Sand-aster
0	Cucurhita foetidissima	Cryptaniha
· 6.	Descureinia sp.	Calabazilia
n.	Dicentra chrysantha	Tansy-mustard Golden Ear-drops
	Dichelostomma capitatum	Blue Oicks
Ö	Dudleya sp.	Dudteya
'n.	Emmenanthe pendulifera	Whispering Sells
0	Eriastrum sp.	Woolly-star
σ.	Encemeria sp.	Goldenbush.
o	Erigeron follosus	Leafy Daisy
ο .	Eriodictyon trichocalyx	Hairy Yerba Santa
0	Eriogonum fesciculatum	Inland California Buckwheat
c.	Enogonum sp.	Buckwheat
0	Eriophyllum sp.	Long-stem Golden-yarrow
2.	Erodium cicutarium*	Red-stem Storksbill
٥.	Erysismum capitatum	Western Wallflower
ο.	Eschscholzle californica	California Poppy
٥.	Eucrypta chrysanthemilolia	Spotted Hideseed
٠.	Euthamia occidentalis	Western Goldenrod
e.	Garrya vestchii	Canyon Silk Tassel
· • · ·	Gilia sp.	Gilia
0	Gnaphalium	Cudweed
a '	Guillenia lasiophylla Gulierrezia sarothrae	California Mustard
		Broom Matchweed
	Hellotropium curassavicum : :: :: Hirshfeldia incana	Salt Heliotropa
о •	Lamium amplexicaule	Short-pod Mustard
3	Lasthenia gracilis	Henbit
بت	Layie glandulosa	Common Goldfields
<u></u>	Lepidium sp.	White Layla
	Linanthus bellus	Pepperweed Desert Beauty
٥	Linanthus dichotomus	Evening Snow
ë.	Lonicera subspicata	Johnston's Honeysuckle
o o	Malacolhrix californica	California Dandelion
	Malacothrix clevelandii	Cleveland's Malacothrix
0	Marah macrocarpus	Wild-cucumber
		Horehound
٥	Matricaria mutricarioides*	Common Pineapple-weed
C C	Mentzelia vealchiana	Veatch's Stick-leak
0	Microsteris gracitis	Stender Phiox
_	man, a	

Monkeyflower

Small-flower Baby Flue Eyes

Chaparral Broom-rape

Mimulus sp.

Nemophila menzeisil

Orobanche bulbosa

ο.

 Osmadenia tenella 	Osmadenia
 Paeonia californica 	California Peony
 Peclocarya sp. 	Pectocarya
o Phacella sp.	Phacelia
Pholistoma membrari	aceum White Fiesta Flower
 Pleglobothrys sp. 	Popcomflower
 Plantego patagonica 	
 Platystemon californic 	cus Cream Cups
 Prunus ilicifolia 	Holly-leaf Cherry
 Refinesquia neomexi 	
 Ribes quercetorum 	Oak Gooseberry
 Rompa nasturtium-ac 	quaticum Water-cress
 Rosa californica 	California Rose
Saltugilia australis	Southern Gilia
 Senecio californicus 	California Butterweed
 Senecio flacoldus : 	Butterweed
 Sidalcea melvaeflora 	Checker-bloom
Sisymbrium sp.	Tumble Mustard
 Solidago catifornica 	California Goldenrod
Stachys ajugoides	Hedge-nettle
Stephanomeria sp.	Wreathplant
Streptanthus campos	
 Stylocline gnaphalioid 	
Tetredymia comosa:	Colton-thorn
Thysanocarpus sp.	Fringepod
Trichostemme parishi	Mountain Bluecuris
 Tropidocarpum gracile 	Slender Dobie-pod
Uropappus lindleyi	Silver Puffs
Viola purpurea	Oak Yellow Violet
)"	San Friori
>	
Other Flowering Plan	ita:

MCBZOI LBOI BLACK THILED JACKRASSIT MC WARRYT BELL 1 DESELT BEAUTY MCBJO2 B.T. JACKRABBIT

0

Rare Wildlife or Rare Plants:

S.D. HORNES LIZARO

Quino Checkerspot Butterfly Protocol Survey — Field Data Sheet

				Date: 4/5/2011 GPS Unit : 5	
Project: Concentrix S	olar Project M	ар #: <u>)</u> Surv	rey Sxn:	-7 QCB Protocol Survey # of 5	
TIME (24-hour)	Tomp (F*):	Wind (avg/max)	% cc	Sky	
Start // 5 3	75	2 -4	~ T		
51G11 J F	† 	<u> </u>	- -	· · · · · · · · · · · · · · · · ·	
	·· ·	— — I	+		
	1 4			clear patchy ovorcast drozza showor	
				clost patchy ownersol drizzle shower	
]			clost patchy cycrost draz's shower	
	1 7				
End 3-55	70	3 - 6	40 Z	clear patchy overchel drazin shower	
			ps, soil crusts.	clay soils, old roads, various nectar sources	
Nymphalidae (Brushfoot	nd Quthrellinet		_⊢		Total
		· · ·	— · <u></u>	Hesperiidae (Skippers)	
Euphydryas edilha (Quir				Erynnis funeralis (Funereal Duskywing)	-
Euphydryas chalcedona		aspot) /	/_	Erynnis tristis (Sad Duskywing)	_
Thessalia leanira (Wrigh				Erynnis proportius (Propertius Duskywing)	
Chlosyne californica (Ca			_ _	Erynnis brizo (Steepy Duskeywing)	
Chlosyne gabbii (Gabb's				Pyrgus albescens (Checkered Skipper) //	2_
Phyciodos mylitta (Mylitt				Hosporia Jubia (Jubia Skipper) / H Jubo	/
Junonia coenia (Commo		•		Polites sabuleti (Sandhill Skipper) ///	3
Vanessa annabella (We:				Megathymidae (Glant Skippers)	
Vanessa atalania (Red A	Admiral)			Megathymus yuccae (Yucca Giant Skipper)	
Vanessa cardul (Painted	d Lady) /				
Vanessa virginiensis (Vi	rginia Lady)			Other Butterflies:	
Nymphalis californica (C	California Tortoise	shelf)	-		
Danaidae (Milkweed But	lerfiles)	· . · · · · · · · · · · · · · · · · · ·		<u> </u>	
Danaus plexippus (Mona	arch)				
Danaus gilippus (Queen				· · · · · · · · · · · · · · · · · · ·	
Satyridae (Satyrs)	· · · · · · · · ·		· .	Mother	
Coenenympha californie	a (Common Catifo	ornia Ringlet)		Brastaria tejonica III	3
Pieridae (Whites, Sulphu				10,000	_
Pieris rapae (Cabbage V			· ·		
Pontia sisymbni (Spring					
Pontia bockerii (Beker's	· .			····	
Pentia prolodice (Comm			13		
Anthocharis sara (Sara (· · · · · · · · · · · · · · · · · · ·	3	-	
Anthocharis cethura (Fe		1	- ' -	+ · · · · ·	
Euchloe hyantis (Desert			\rightarrow	<u> </u>	
Colias eurytheme (Orang			- ' -	·—	
Collas harfordii (Harford					
] _	-	
				•	
Nathalis iole (Dainty Sul				Notes:	
Papilionidae (Swallowta)	ls)	· · · · · · · · · · · · · · · · · · ·		Notes:	
Papilionidae (Swallowta) Papilio polyxenes (Dese	lts) rt Black Swallowt	ail)		Notes:	
Papilionidae (Swallowtai Papilio polyxones (Dese Papilio eurymedon (Pale	fs) rt Black Swallowt swallowtail)	•		Notes:	
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymeden (Pale Papilio rululus(Western	ls) rt Black Swallowt i swallowtail) Tiger Swallowtail	•		Notes:	
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rutulus(Western Riodiniade (Metalmarks)	lts) rt Black Swallowt a swallowtail) Tiger Swallowtail	•		Notes:	· · ·
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rutulus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr	its) rt Black Swallowt a swallowtail) Tiger Swallowtail s Metalmark)	•		Notes:	· · · ·
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr Lycaenidae (Hairstreaks	its) it Black Swallowt is swallowtail) Tiger Swallowtail s Metalmark) y and Blues)	•	- A	Notes:	
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemis mormo (Behr Lycaenidae (Hairstreaks Celastrina ladon (Spring	its) it Black Swallowt is swallowtail) Tiger Swallowtail s Metalmark) and Blues) Azure)	•	15	Notes:	
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemis mormo (Behi' Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine	its) it Black Swallowt a swallowtail) Tiger Swallowtail s Metalmark) and Blues) Azure)	•			
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behri Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine Brephidium exile (Weste	its) It Black Swallowt It Black Swallowtail Tiger Swallowtail Is Metalmark) and Blues) Azure) It Blue) It Blue (It Blue)) */ - /7	15		
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemis mormo (Behi' Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine	its) It Black Swallowt It Black Swallowtail Tiger Swallowtail Is Metalmark) and Blues) Azure) It Blue) It Blue (It Blue)) */ - /7	15		
Papilionidae (Swallowtai Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behri Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine Brephidium exile (Weste	its) It Black Swallowt It Black Swallowtail Itiger Swallowtail Is Metalmark) Is Gouthern Blue/Is Is (Southern Blue/Is) */ - /7	15		
Papilionidae (Swallowta) Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemis mormo (Behr' Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine Brephidium exile (Weste Glaucopsyche lygdamus Hemiargus ceraunus (Ed	Its) If Black Swallowt If Black Swallowtail If ger Swallowtail If Metalmark) If Metalmark If Metalma) */ - /7			
Papilionidae (Swallowtat Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine Brephidium exile (Weste Glaucopsyche lygdamus Hemiargus ceraunus (Ederia acmon (Acmon Bl	Its) If Black Swallowt Is swallowtail) Tiger Swallowtail Is Metalmark) And Blues) Azure) Is Blue) Im Pygmy Blue Is (Southern Blue/Idward's Btue) Is (Metalmark) Is (Southern Blue/Idward's Btue) Is (Metalmark) Is (Meta) */ - /7	15 I		
Papilionidae (Swallowta) Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr Lycaenidae (Hairstreaks Celastrina ladon (Spring Loptoles marina (Marine Brephidium exile (Weste Glaucopsyche lygdamus Hemiargus ceraunus (Edicaria acmon (Acmon Bl Philoles sonorensis (Son	Its) If Black Swallowt If Black Swallowtail Is swallowtail Tiger Swallowtail Is Metalmark) A Blues Azure) Is Blue Im Pygmy Blue Is (Southern Blue) Idward's Blue) Inoran Blue)) */ - /7	3		-
Papilionidae (Swallowtat Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr Lycaenidae (Hairstreaks Celastrina ladon (Spring Loptoles marina (Marine Brephidium exile (Weste Glaucopsyche lygdamus Hemiargus ceraunus (Ederia acmon (Acmon Bl Philoles sonorensis (Son Callophrys augustinus (E	Its) If Black Swallowt If Black Swallowtail Is swallowtail Tiger Swallowtail Is Metalmark) A and Blues Azure) Is Blue Im Pygmy Blue Is (Southern Blue) Idward's Blue) Inoran Blue) Inoran Blue) Inoran Blue) Is (Sover Effin)) X(// Silvery blue)	3 2		-
Papilionidae (Swallowta) Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr) Lycaenidae (Hairstreaks Celastrina ladon (Spring Leptoles marina (Marine Brephidium exile (Weste Glaucopsyche lygdamus Hemiergus ceraunus (Edearia acmon (Acmon Bl Philoles sonorensis (Soc Callophrys augustinus (Edealophrys perplexa (Pe	Its) If Black Swallowta Is swallowtail) Tiger Swallowtail Is Metalmark) and Blues) Azure) Is Blue) Im Pygmy Blue) Is (Southern Blue/Idward's Blue) Inoran Blue) Inoran Blue) Irptexing Green H) X(// Silvery blue)	3		-
Papilionidae (Swallowtat Papilio polyxenes (Dese Papilio eurymedon (Pale Papilio rululus(Western Riodiniade (Metalmarks) Apodemia mormo (Behr Lycaenidae (Hairstreaks Celastrina ladon (Spring Loptoles marina (Marine Brephidium exile (Weste Glaucopsyche lygdamus Hemiargus ceraunus (Ederia acmon (Acmon Bl Philoles sonorensis (Son Callophrys augustinus (E	rt Black Swallowt a swallowtail) Tiger Swallowtail S Metalmark) and Blues) Azure) Ellue) Em Pygmy Blue) s (Southern Blue/dward's Btue) ue) Inoran Blue) Frown Elfin) rptexing Green H Hairstreak)	/ T Silvery blue)	3 2		-

__ctial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)_

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC | Collinsia concolor = CC | Cordylanthus rigidus = CR | Plantago patagonica = PP

-		II - AC COIMISIA CONCOIO? = CC	Corayianthus rigidus = CR Plantago patagonica = PP
-	Amsinckia menziesii	Rancher's Fiddleneck	
	Antirrhimum coulterlanum	Coulter's Snapdragon	Osmadonia tenella Osmadenia
o	Antinhinum nuttallianum	Nuttali's Snapdragon	Paeonia celifornica California Peony
a	Asclepias fascicularis	Narrow-leaf Milkweed	o Pectocarya sp. Pectocarya
10	Boechera sp.	Rock Cress	○ Phacelia sp. Phacelia
О	Calandrinia ciliata	Red Maids	Pholistoma membranaceum White Fiesta Flower
. 0	Celochertus concolor	Golden-bowl Mariposa Lily .	Plagiobothrys sp. Popcomflower
0	Calystegia longipes	Morning-glory	o Plantago palagonica Desert Plantain
0	Cemissonia sp.	Sun Cup	o Platystemon californicus Cream Cups o Prunus ilicifolia Holly leat Cherry
,	Castilleja exerta	Paintbrush	riday-lear Criefly
0	Caulanthus heterophyllus	San Diego Jewelflower	Refinesquia neomexicana Desert Chicory Ribes quecelogum Oek Conselvativi
0	Caulanthus simulans	Payson's Caulanthus	- Albert Artifectures Cont Cookeyerry
Q	Ceanothus cuneatus	Buck Brush	Trace-cies
v	Ceanothus greggli	Cup-leaf-lilac	
9	Ceanothus leucodermis	Chaparral Whitethorn	1
٥	Chaenectis artemisiifolia	White Pincushion	
o.	Chaenactis glabriuscula	Yellow Pincushion	
a	Clematis sp.	Ctematis	
o,	Collinsia concolor	Southern Chinese Houses	
O	Cordylanthus rigidus	Dark-tip Bird's Beak	
. 0	Coroopsis californica	California Coreopsis	
0	Çorethrogyne filaginilolia	Common Sand-aster	,
2	Cryptantha sp.	Cryptantha	1
G	Cucurbita foetidissima	Calabazilla	
10	Descurainia sp.	Tansy-mustard	
o	Dicentra chrysantha	Golden Ear-drops	Thysanocarpus sp. Fringepod Trichosfemme parishii Mountain Bluecuris
Ó	Dichelostemma capitalum	Blue Dicks	Tropidocarpum gracile Slender Dobie-pod
o	Dudleya sp.	Dudteya	Uropappus findleyi Silver Puffs
0	Emmenanthe pendulifera	Whispering Bells	Viola purpurea Oak Yeltow Violet
٥	Eriastrum sp.	Woolly-star	Car tellow dillet
8	Ericameria sp.	Goldenbush	0
0	Erigeron fotiosus	Leafy Daisy	Other Flowering Plants:
0	Eriodictyon trichocalyx	Hairy Yerba Santa	0
0	Eriogonum fasciculalum	Inland California Buckwheat	to a first the second of the s
0	Eriogonum sp.	Buckwheat	
O	Eriophyllum sp.	Golden-yarrow	The state of the s
. •	Erodium cicutarium*	Red-stem Storksbill	
0	Erysismum capitatum	Western Wallflower	The second secon
o	Eschscholzia californica	California Poppy	0
o	Eucrypta chrysanthemitolia	Spotted Hideseed	
n	Euthamia occidentalis	Western Goldenrod	Rare Wildlife or Rare Plants:
ני	Garrya veatchil	Canyon Silk Tasse)	0.
. О	Gilia sp.	Ģllia · · · · · · · · · · · · · · · · · · ·	
•	Gnaphelium	Cudweed	1 : •
. 0	Guillenia lasiophylla	Gatlfornia Mustard	
э	Gulierrezia serothrae	Broom Matchweed	
•	Heliotropium curessavicum	Saft Hetiotrope	
α.	Hirshfeldia incana	Short-pad Mustard	c
.0.	Minium amplexicaule	Henbit	U
. 2	Easthenia gracilis	Common Goldfields	
. 🖫	Layla glaridulosa	White Layla	0
0	Lepidium sp. Linanthus bellus	Pepperweed	D .
0	Linanthus dichotomus	Desert Beauty	0
٥		Evening Snow	
٥	Lonicera subspicata Malacothrix californica	Johnston's Honeysuckte	
n	Malacothrix clevelandii	California Dandelion	•
e e	Marah macrocarpus	Cleveland's Malacothrix	· ·
ို		Wild-cucumber	0
0	Marrubium vulgare* Matricaria matricarioides*	Horehound	0
0	Mentzelia veatchiana	Common Pineapple-weed	6
0	Microsteris gracilis	Veatch's Stick-leak	, r
0	Mimulus sp.	Stender Phlox	
c	Nemophila menzeisii	Monkeyflower	0
0	Orobanche bulbosa	Small-flower Baby Blue Eyes Chaparral Broom-rape	0
	CONTRACTOR DELIDING	Chapana Clowniada .	

Quino Checkerspot Butterf	ly Protocol Survey — Field Data Sheet # /
	11121 -4-1
Recorder: En Blagnett Add Person:	
Project: Concentrix Solar Project Map #: Survey Sxn	CCB Protocol Survey# of 5
TIME [24-hour] Tomp (F*): Wind (avg/max) % Co	
Start // 30 65 / 1-2 6-	· · · · · · · · · · · · · · · · · · ·
12.00 16696 1-2 /2	
1/2 30 1 Wort /2 1 2	
	patchy
- (<u> </u>	
1230 - 62°F 3.6 4	
$ A ccc A ^2 A $	
End	clear psichy overcasal dricele shower
Habilat On-site (circle): open soils, hilltops, ridges, rock outcrops, soil o	crusts, clay soils, old roads, various nectar sources
Nymphalidae (Brushfooted Butterflies)	Total Total
Euphydryas edilha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henna's Checkerspot)	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis proportius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis brizo (Steepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (West Coast Lady)	Megathymidae (Giant Skippers)
Vanessa atalanta (Red Admiral)	Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	Common South Com
Vanessa virginiensis (Virginia Lady)	Other Butterflies:
Nymphalis californica (California Tortoiseshell)	الله الله الله الله الله الله الله الله
Danaldae (Milkweed Butterflies)	Cal grand Cathoning
Danaus plexippus (Monarch)	white warmed open to But hick which
Danaus gilippus (Queen)	- Interpense 7 255 total
Satyridae (Satyrs)	School fory
Coenonympha californica (Common California Ringlet) Pieridae (Whites, Sulphurs)	Monkey dre
Pieridae (Whites, Sulphurs) Pieris rapae (Cabbage White)	
Pontia sisymbrii (Spring White)	+ Bed tall
Pontie beckerii (Beker's White)	- along product 7
Pontia protodice (Common White)	- certain blue town
Anthocharis sara (Sara Orangetip)	—·
Anthocharis cethura (Felder's Orangetip)	·
Euchloe hyantis (Desert Pearly Marble)	·
Colias eurytheme (Orange Sulphur)	
Collas harlordii (Harford's Sulphur)	- +
Nathatis iole (Dainty Sulphur)	- John & Town aren
Papilionidae (Swallowtalis)	Notes:
Papilio polyxenes (Desert Black Swallowtail)	Surveyed forms I'm D. 7 and
Papilio eurymedon (Pale swallowtail)	markett SDGE road South
Papilio rutulus(Western Tiger Syvallowtail)	400 Stacker /to cold in morally
Riodiniade (Metalmarks)	_ \
Apodemia mormo (Bahr's Metalmark)	16 Assa & 7 - New Ferce and ds SD & 10
Lycaenidae (Hairstreaks and Blues) Celastrina ladon (Spring Azure)	_ <u> </u>
Leptotes marina (Marine Blue)	
Brophidium exile (Western Pygmy Blue)	
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	2/5 gv 6 2 - 2860 16-1 Correct 82
Herniargus ceraunus (Edward's Blue)	$ +$ $ \frac{266}{2}$
	22 - 5186 0 5 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Philotes sonorensis (Sonoran Blue)	
Callophrys augustinus (Brown Elfin)	
Callophrys perplexa (Perplexing Green Hairstreak) i i	4 - <u>8649311 - 886921 - 1</u> - <u>86491 - 1</u>
Strymon melinus (Gray Hairstreak)	
Attides halesus (Great Purple Hairstreak)	- 2/5/6/01 -1 - 5/5 CM 62 -5 - LORANT - 2/5/6/10 -1 - 2/5 CM 62 -5 - LORANT
	6534 L 1 2000 Kentu
	6 (2) 1 (whether
	\$1369 PL-3

untial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) ructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC — Callinsia cancalor = CC — Cordylanthus rigidus = CR — Plantago patagonica = PP

\mathbf{X}	Amsinckia menziesii	Rencher's Fiddleneck	1 0	Osmadenia tenella	Osmađenia
0	Antirchimum coulterlanum	Coulter's Snapdragon	: "	Paeonia celifornica	California Peony
: 0	Antirrhinum nuttəllianum	Nuttall's Snapdragon		Pectocarya sp.	Peclocarya
	Asclepias (ascicularis	Narrow-leaf Milkweed	1 5	Phacelia sp.	Phacela
994	Boechera sp.	Rock Cress	;	Pholistoma membranaccum	White Fiesta Flower
J.	Calandrinia ciliata	Red Maids		" Plaglobothrys sp.	Popcomflower
. 0 .	Calochortus concolor	Golden-bowl Mariposa Lily.	1 %	Plantago patagonica	Desert Plantain
. 0	Calystegia longipes	Morning-glory		Platystemon californicus	Cream Cups
6 "	Cemissonia sp.	Sun Cup	1	Prunus ilicifolia	Holly-leaf Charry
0	Castilleja exerta	Paintbrush	<u>~</u>	Rafinesquia neomexicana	Desert Chicory
260	Caulanthus heterophyllus	San Diego Jewelflowet	``.	Ribes quercetorum	Oak Gooseberry
	Caulanthus simulans	Payson's Caulanthus	៉	Rompa nasturtium-aquaticum	Water-cress
.0	Ceanothus cuneatus	Buck Brush		Rosa californica	California Rose
194	Ceanothus greggii	Cup-leaf-lilac	[6]	Seltugilia australis	Southern Gilia
6	Ceanothus leucodermis	Chapairal Whitelhorn	, ,	Senecio californicus	
0	Chaenactis artemisiifolia	White Pincushion		Senecio (laceldus	California Butterweed
.0.	Chaenactis glebriuscula	Yellow Pincushion	"		Bullerweed
n	Clematis sp.	Clematis	0	Sidalcea malvaeflore Sisymbrium sp.	Checker-bloom Tumble Mustard
: 6	Collinsia concolor	Southern Chinese Houses	6		
	Cordylanthus rigidus	Dark-tip Bird's Beak	1 .	Solidago californica	California Goldenrod
≫ .	Coreopsis californica	California Coreopsis	. 0.	Stachys ajugoides	Hedge nettle
ر د	Corethrogyne fileginlfolia	Common Sand-aster	၂ပ	Stephanomeria sp.	Wreathplant
×.	Cryptantha sp.	Cryplantha		Streptonthus campostris	Southern Jewelflower
10	Cucurbite foetidissima	Cryptanina		Stylocline gnaphalioides	Everlasting Nest-straw
- 0 -	Descurainia sp.	Tansy-mustard	- 0	Tetradymia comosa	Colton-thorn
ο.	Dicentra chrysantha	Golden Ear-drops	0	Thysanocarpus sp.	Fringepod
ο:	Dichelostemma capitatum	Blue Dicks		Trichostemma parishii	Mountain Bruecurls
٧	Dudleya sp.	Dudleya	c	Tropidocarpum gracile	Slender Dobie-pod
				Uropappus lindleyl	Silver Puffs
		Whispering Bells		Viole purpurea	Oak Yeltow Violet
) 	Erlastrum sp.	Woolly-star	0.		, and the second se
~	Ericameria sp.	Goldenbush	9		
٥	Erigeron foliosus	Leafy Daisy	0.	Other Flowering Plants:	
: 0	Eriodictyon trichocalyx	Hairy Yerba Santa.	^	- Cup mer conjum.	
0	Eriogonum fesciculatum	Inland Catifornia Buckwheat	. 91	Comptant & intermed	
. 0 :	Erlogonum sp.	Buckwheat	.0	- Effil a grannon, grong Aufr	C
0 :\	Eriophyllum sp.	Golden-yarrow	0	philade a distalis	
	Erodium cicularium*	Red-stem Starksbill	٥	is potanthy legicity	
O No.	Erysismum capitatum	Western Wallflower	ء		
M		California Poppy	. 0		
, c	Eucrypia chrysanthemifolia	Spotted Hideseed	.0		
· 0 ·	Eulhemis occidentalis	Western Goldenrod	0	Rare Wildlife or Rare Plants:	
O	Garrya veatchii	Canyon Silk Tassel	.0	# lo ate and	
.63 -	Glia-sp.	Gilia	۵		36470571
. a	Gnaphalium	Cudweed	ő	56603ター2	15.74DC6-1
ાંુલ :	Guillenia laslophylla	California Mustard	٥	486023 3	1610161
, gr	Gulierrezia sarothrae	Broom Matchweed	0	1860 24-3 FOR	who 4564 4774
-0 -	Heliotropium curessavicum	Salt Heliotrope	0	GR.64 35- 2	
×	Hirshfeldia incana	Short-pod Mustard		m \$200 06 854 11 1	HOUSE
. 0	Lamium emplexicaule - · · .	. Henbli :: : : : : : : : : : : : : : : : : :	D	36 AO 82- 3	92.6049 - 1
Ж.	Lastheria gracilis	Common Goldfields	+ 6 +	- 486 a7 - 2	9/3606-
××.	Layia glandulosa	White Layla		106028-4	. Kan 25 - 1
0	Lepidium sp.	Pepperweed	o:	1. 3.66V24-2	1 2 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0 1	Unanthus ballus :	Desert Beauty	0	3060 July 3	Look C X
ń	Linanthus dicholomus	Evening Snow	٠٥٠	6051 BL 4	The transfer of the second
0	Lonicera subspicata	Johnston's Honeysuckle		1866 8 St. 18 18 18 18 18 18 18 18 18 18 18 18 18	**************************************
0	Malacolhrix californica	California Dandelion		466 J 34 - 3	Strait and B
, io : :	Melacolhrix elevelandii	Cleveland's Malacothrix		Contract of	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
0	Marah macrocarpus	Wild-cucumber	٠	- 120 p. (1. 31 - 30 - 1.	
0	Merrubium vulgare*	Horehound	0	. ηρευν αξιεχής Αγε _{ιου 2} μη το 1	16.15 T. 2
0	Matricaria matricarioides*	Common Pineapple-weed	1 .	10/60 14 5 1 W	AN ACA.
	Mentzelia veatchiana	Vestch's Stick-leak	.0	WAY AND A	
. •		Slender Phlox	0.0	1. 7 22 10 C. B.	
ο.	Miconstant gracine			へいけつかり 日子 としゅうきょうしょう	
•	Microsteris gracilis		1	1 1988 S. M. S. L. M	
a.:	Mimulus sp.	Monkeyflower	0		•
o			1	162663	

Recorder: MIKE COUFFER Add'l Person:	Ø	Date: 13 [APRIL, 20] GPS Unit :	_
Project: Concentrix Solar Project Map #: Survey Sx	n:	QCB Protocol Survey # 3 of 5	
TIME (24-hour) Temp (F*): Wind (avg/max) % (cc	Sky	
Stort 1119 H25 63°F 3-> Flore	ş. ·		i
	· —		
1	·—		
1300 62°F 4->7 @	·	offear pulchy overcost drizzle shower	
1400 (0(°F 4-77 /0	″	(floor) patchy overcast drizzle showe	
1500 60°F 4-710 1 A	-	clost potchy overcost <u>drizzle</u> shower	
ļ—————————————————————————————————————	Ť		
Habitat On-site (circle): open soils, hilltops, ridges, rock cutcrops, soil	lonists o	dear patchy overcost dizzle shower	
	Total		otal
Nymphalidae (Brushfooted Butterflies)		Hesperiidae (Skippers)	
Euphydryas editha (Quino Checkerspot)		Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcedona (Henne's Checkerspot)		Erynnis Iristis (Sad Duskywing)	
Thessalia leanira (Wright's Checkerspot)		Erynnis propertius (Propertius Daskywing)	
Chlosyne californica (California Patch)		Erynnis brizo (Steepy Duskeywing)	
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus albescens (Checkered Skipper)	
Phyciodos mylitta (Mylitta Crescent)		Hesperia jubia (Jubia Skipper)	
Junonia coenia (Common Buckeye)	4	Polites sabuleti (Sandhill Skipper)	
Vanessa annabella (West Coast Lady)		Megathymidae (Giant Skippers)	
Vanessa atalanta (Red Admiral)	•	Megathymus yuccae (Yucca Giant Skipper)	
Vanessa cardui (Painted Lady)			
Vanessa virginiensis (Virginia Lady)		Other Butterflies: War State Control of the Control	
Nymphalis californica (California Tortoiseshell)		SACHEML	Ų.
Danaldae (Milkweed Butterflies)			1
Denaus plexippus (Monarch)		Common Scotywing	
Danaus gilippus (Queen)			
Satyridae (Satyrs)			-
Coenonympha californica (Common California Ringlet)		· ·	
Pieridae (Whites, Sulphurs)	-	· · · · · · · · · · · · · · · · · · ·	
Pieris rapae (Cabbage White)		· · · · · · · · · · · · · · · · · · ·	
Pontie sisymbrii (Spring White)			
Pontia beckerii (Beker's White)			
Pontia prolodico (Common White)		· · · · · · · · · · · · · · · · · · ·	
Anthocharis sara (Sara Orangetip)			
Anthocharis calhura (Felder's Orangetip)			
Euchloe hyantis (Desert Pearly Marble)	<u></u>	ļ	
Colias eurytheme (Orange Sulphur)	•	·· ··	
Collas edyriteme (Crange Supriur) Collas harfordii (Harford's Sulphur)	-	· - 	
Nathalis iole (Dainty Sulphur)			
Papilionidae (Swallowtails)		Notes:	
Papilio polyxenes (Desert Black Swallowtail)		<u> Μεσικό ό</u> Γ	
Papilio eurymedon (Pale swallowall)		1 W @ @ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Papilio ratulas(Western Tiger Swallowtail)		mcww03	
Riodiniade (Metalmarks)		 	
Apodemia mormo (Behr's Metalmark)		<u></u>	
Lycaenidae (Halrstreaks and Blues)		ļ -	_
Celastrina ladon (Spring Azure)			
Leptotes marina (Marine Blue)			
Brephidium exile (Western Pygmy Blue)			
Glaucopsyche lygdamus (Southern Blue/Silvery blue)			
Hemiargus ceraunus (Edward's Blue)			
Icarla acmon (Acmon Blue)	ું 3 .		
Philotes sonorensis (Sonoran Blue)	l	<u> </u>	
Callophrys augustinus (Brown Elfin)			
Callophrys perplexa (Perplexing Green Hairstreak)			
Strymon melinus (Gray Hairstreak)			
Atlides halesus (Great Purple Hairstreak)	Ľ	- ' -	

Jotential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

		Comisia concolar - CC	oi uyian	inos rigiaus = CR Plantago pa	<u>tagonica = PP</u>
-	Amsinckia menziesii	Rancher's Fiddleneck	. —		
. "	Antirrhimum coulterianum		0	Osmadenia tonella	Osmađenia
0	Antirminum nuttellianum	Coulter's Snapdragon	6	Paeonia californica	Catifornia Peony
		Nuttall's Snapdragon	۰ ا	Pectocarya sp.	Pectocarya
.°.	Asclepias fascicularis	Narrow-leaf Milkweed	0.	Phacelia sp.	Phacelia
٥,	Boechera sp.	Rock Cress	0	Pholistoma membranaceum	White Fiesta Flower
0	Calandrinia ciliata	Red Maids	100	Plaglobothrys sp.	Popcornflower.
۰,	Calochortus concolor	Golden-bow Manposa Lily	0	Plantago patagonica	Desert Plantain
£3	Celystegia longipes	Morning-glory	1 : 0	Platystemon californicus	Cream Cups
. 0	Camissonia sp.	- Sun Cup -	3	Prunus ilicifolia	Holly-leaf Cherry
C	Castilleja exerta	Paintbrush		Rafinesquia neomexicana	Desert Chicory
.0	Caulanthus heterophyllus	San Diego Jewelflower	0	Ribes quercetorum	Oak Gooseberry
0	Cautanthus simulans	Payson's Caulanthus	67	Rompa nasturlium-aquelloum	Water-cress
٠ ۵.	Ceanothus cuneatus	Buck Brush	٥١	Rosa californica	California Rose
O	Ceanothus greggii	Cup-leaf-filac	1 :0:	Settugilia australis	Southern Gilia
0.	Ceanothus leucodermis	Chaparral Whitethorn		Senecio californicus	California Bulterweed
G.	Chaenectis artemisiifolla	White Pincushion	.6	Senecio fleccidus	Bulterweed
٠ ۵	Chaenactis glabriuscula	Yellow Pincushion		Sidalcea melvaeflora	
o,	Clematis sp.	Clematis	: "	Sisymbilum sp.	Chacker-bloom
ri,	Collinsia concolor	Southern Chinese Houses	,	Solidago californica	Tumble Mustard
O	Cordylanthus rigidus	Dark-tip Bird's Beak	1 ::0:	· - · · · · · · · · · · · · · · · · · ·	California Goldenrod
10	Coreopsis californica	California Coreopsis	1		Hedge-nettle
c	Corethrogyne filaginifolia	Common Sand-aster		Stephanomeria sp.	Wreathplant
(T)	Cryptantha sp.	Cryptantha		Streptanthus camposins	Southern Jewelflower
4	Cucurbita foetidissima	Calabazilla	0	Stylocline gnaphalioides	Everlasting Nest-straw
Φ.	Descurainia sp.	Tansy-mustard	- 9:	Tetradymia comose	Cotton-thorn
o	Dicentra chrysantha	Golden Ear-drops		Thysanocarpus sp.	Fringepod
\mathbf{o}	Dicheloslemma capitatum	Blue Dicks	° ·	Trichostemme parishii	Mountain Bluecuris
0	Dudleya sp.	Dudleya	<u> </u>	Tropidocarpum gracile	Stender Dobie-pod
ο	Emmenanthe pendulifera	Whispering Bells	:0	Uropappus findleyi	Silver Puffs
O.	Eriastrum sp.	Woolly-star		Viola purpuroa	Oak Yellow Violet
ο.	Ericemene so.	Goldenbush	0	krito en dunero ale Dicoler	ing a Horold District Control of
0	Erigeron foliosus	Leafy Daisy		On	
0	Eriodictyon trichocalyx	Hairy Yerba Santa		Other Flowering Plants:	
6	Eriogonum fasciculatum	Inland California Buckwheat	, °.		
0	Eriogonum sp.	Buckwheat	0	uli disabilita mala ili.	
o	Eriophyllum sp.	Golden-yarrow	1 °	many and the second	
	Erodium cicularium*	Red-stern Storksbill	0.		
o	Erysismum capitalum	Western Wallflower		i transfer at	
o1.	Eschschölzia celifornica	California Poppy	1 2		ora 120 mm Pilotino.
9	Eucrypta chrysanthemifolia	Spotted Hideseed		and the first transfer of the second	
ö	Euthamia occidentalis	Western Goldenrod			
	Garrya veatchii	Canyon Silk Tasser		Rare Wildlife or Rare Plants:	
	Gilia sp.	Gilia			
ti.	Gnaphalium	Cudweed		and the same of th	No. of the second second
o "	Guillenia lasfophylla	California Mustard	0.1		Angent Miller et al.
	Gulierrezia sarothrae	Broom Matchweed	. 6.		
	Heliotropium curessavicum	Saft Heliolrope	- 0.		
0	Hirshfeldia incena	Short-pod Mustard			
	and the contract of the contra	Henbit	· ° ·		
	Lasthenia gracilis	Common Goldfields	. 0		
	Layle glandulosa	White Layia	O	out the appetite the	abum (Altalia (B
	Lepidium sp.	Pepperweed			
	Linanthus bellus	Desert Seauty	٠٠.		
	Linanthus dichotomus	Evening Snow	٠.		
	Lonicera subspicale	Johnston's Honeysuckte	o		
	Malacothrix californica	California Dancelton			
	Malacothrix clavelandii	Cleveland's Malacothrix	: ő.		
	Marah macrocarpus	Wild-cucumber	٠, .		
		Horehound : : : : : : : : : : : : : : : : : : :	o: .		一种 有名 医乳化二氢氯化
		Common Pineapple-weed	•		
o· ·		Veatch's Stick-leak	·a.		
	Microstoris gracilis	Slender Phiox	°		
		Monkeyflower	. 0		
		Small-flower Baby Blue Eyes			
	and the second of the second o	Chaparral Broom-rape	0.5		

Recorder: Mine C			r	Date: 14 APRIL, 2011 GPS Unit : 17	
Project: Concentrix Sol	ar Project_N	//ap#: <u></u>	vey Sxn:	QCB Protocol Survey # 5 of 5	<u> </u>
TIME (24-thour)	Tamp (F1):	Wind (avg/max)	% CC	<u></u>	
Start 0845 HeS	6 0	1-72 min		putchy overcasi cruzie shower	
0900 H23	6 \	Ø->)	Ser	clash) palchy overcast crizzio shower	
1000 Has	63	ø->2	<u> </u>	ctear palitity overcast dazzle shower	
1100 HQ S	6 ك	g/-> 2	B	Ces colichy overcast dazzle stower	
1200 H25	48	0/-74	13		
1300 HRS	72 -	Ø->3			
	73		B	clear) satchy overcast crizze shower.	
End 1400 HES		8-72		clear) candity overcast drizzle shower	
Habitat On-site (circle) Open	soils hilltops,	ridges (rock outere	posisoil crus	ls, clay soils, old roads, various nectar sources	
Nymphalidae (Brushfooted	Rutterflies!	-	1.01	Hesperiidae (Skippers)	Tota
Euphydryas editha (Quino (· · · · · · · · · · · · · · · · · · ·			Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcedona (H		erspot)		Erynnis tristis (Sad Duskywing)	
Thessalia leanira (Wright's				Erynnis propertius (Propertius Duskywing)	4
Chlosyne californica (Califo				Erynnis brizo (Sleepy Duskeywing)	
Chlosyne gabbii (Gabb's Cl	heckerspot)			Pyrgus albescens (Checkered Skipper)	
Phyciodes mylitte (Mylitta C				Hesperia jubia (Jubia Skipper)	ス
Junonia coenia (Common B					<u>2</u>
Vanessa annabella (West C				Megathymidae (Giant Skippers)	
Vanessa atalanta (Red Adn			ļ	Megathymus yuccae (Yucca Giant Skipper)	
Vanessa cardui (Painted La					
Vanessa virginiensis (Virgin				Other Butterflies:	
Nymphalis californica (Cali		estreti)		CALLFORNIA SOOTYWING	3
Dartaidae (Milkweed Buttert Denaus plexippus (Monarch		- · · · · · · · · · · · · · · · · · · ·		5richem	5
Danaus gilippus (Queen)	" [,]			VANESSÁ SP.	<i>7</i> ∠
Satyridae (Satyrs)					
Coenanympha californica (C	Coremon Calif	orova Ringleth		- 	
Pieridae (Whites, Sulphurs)			-::::		
Pieris rapae (Cabbage Whit				-	
Pontia sisymbrii (Spring Wh				-	
Pontia beckerii (Beker's Wh	rite)		. [- " -	
Pontia protodice (Common)	White)		J		_
Anthocharis sara (Sara Ora					
Anthocharis cethura (Felder				<u> </u>	
Euchice hyantis (Desert Per			5		
Collas eurytheme (Orange S					
Colies harfordii (Harford's S	:		├ ─		
Nathalis iole (Dainty Sulphu Papilionidae (Swallowtalis)				Notes:	
Papilio polyxenes (Desert 8		aith		<u> </u>	-
Papilio eurymedon (Pale sw		2117	<u> </u>	END 1441 HES, 71°F, WIND 1-5 mPH, CLEAR)	—
Papilio rutulus(Western Tige)		MC3 MORTARHULES (A SOUTHRY GRINDSTONE)	<u> </u>
Riodiniade (Metalmarks)				MCBZOI - B.T. JACKEASSIT	
Apodemia mormo (8ehr's M	letalmark)		98	AACHITES T	
ycaenidae (Hairstreaks and				MCHLO! HORNED LIZARD	
Celastrina ladon (Spring Azi	ure)		†	MCWWOI WESTERN WHIPTAIL	
Leptoles marina (Marine Blu				MC WW 02	
Brephidium exile (Western F				Mc WW 03	_
Glaucopsyche lygdamus (Sc		Silvery blue)		Mc ww oy	
Hemiargus ceraunus (Edwa	rd's Blue)				
icaria aomon (Aomon Blue)					
Philotes sonorensis (Sonora		(Word)	1		
Callophrys augustinus (Brov		·		.	·
Callophrys perplexa (Perple		kirstréak)	1	<u> </u>	
			. [
Callophrys perplaxa (Perple Strymon melinus (Gray Hain Atlides halesus (Great Purpl	streak)		. 1		

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Instructions'

- Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.
- PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

		Danahada Fiddinanak
٥	Amsinckia menziesii	Rancher's Fiddleneck
0	Antirrhimum coulterianum	Coulter's Snapdragon
C	Antiminum nuttallianum	Nuttall's Snapdragon
O	Asclepias fascicularis	Narrow-leaf Milkweed
Û	Boechera sp.	Rock Cress
O	Calandrinia ciliata	Red Maids
c	Calechartus concelor	Golden-bowl Manposa Lily
C	Calyslegia longipes	Morning-glory
œ.	Camissonia sp.	Sun Cup
С	Castilleja exerta	Paintbrush
O	Caulanthus heterophyllus	San Diego Jewelflower
Ü	Caulanthus simulans	Payson's Caulanthus
o	Ceanothus cuneatus	Buck Brush
0	Ceanothus greggii	Cup-leaf-lilac
0	Ceanothus leucodermis	Chaparral Whitethorn
o	Chaenactis artemisiifolia	White Pincushion
å	Chaenactis glabriuscula	Yellow Pincushion
0	Clematis sp.	Clematis
O	Collinsia concolor	Southern Chinese Houses
o	Cordylanthus rigidus	Dark-tip Bird's Beak
n	Coreopsis californica	California Coreopsis
c	Corethrogyne filaginifolia	Common Sand-aster
.6	(Cryplantha sp.)	Cryptantha
5	Cucurbita foetidissima	Calabazilla
ā:	Descurainia sp.	Tansy-mustard
۵	Dicentra chrysanthe	Golden Ear-drops
0	Dichelostemma capitatum	Blue Dicks
3	Dudleya sp.	Dudleya
Č	Emmenanthe pendulifera	Whispering Bells
•	Eriastrum sp.	Woolly-star
	Encameria sp	Goldenbush
C C	Erigeron foliosus	Leafy Daisy
o.	Enadictyon trichocalyx	Hairy Yerba Santa
a	Eriogonum fasciculatum	Inland California Buckwheat
ë	Enogonum sp.	Buckwheat
c	Enophyllum sp.	Golden-yarrow
0	Erodium cicularium*	Red-stern Storksbill
	••	Western WallRower
Ω	Erysismum capitatum	California Poppy
O	Eschscholzia californica	Spotted Hideseed
0	Eucrypta chrysanthemifolia	Weslem Goldenrod
0	Euthamia occidentalis	•
O	Garrya veatchii	Canyon Silk Tassel
	Gilia sp.	Gila
O	Gnaphalium	Cudweed
O	Guillenia lasiophylla	California Mustard
C	Gutierrezia sarothrae	Broom Matchweed
0	Heliotropium curassavicum	Salt Hetiotrope
n	Hirshfeldia incana	Short-pod Mustard
o	Lamium emplexicaule	Henbit
	(Lasthenia gracilis)	Common Goldfields
ò٠,	(Layia glandulosa)	White Layla
٥	Lepidium sp.	Pepperweed
ο :	Linanthus bellus	Desert Beauty
o	Linanthus dicholomus	Evening Snow
o ·	Lonicera subspicata	Johnston's Honeysuckle
c	Malacothrix californica	California Dandelion
o	Majacothrix clevelandii	Cleveland's Malacothrix
۵	Marah macrocarpus	Wild-cucumber
O	Manubium vulgare*	Horehound
c	Matricaria matricarioides*	Common Pineapple-weed
0	Meritzelia veatchiana	. Veatch's Stick-leak .
0	Microsteris gracilis	Slender Phlox
-	gradin	Mankardower

Monkeyflower

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Mimulus sp.:..

Nemophila menzeisii

Orobanche bulbosa

۵	Osmadenia tenella	Osmadenia
'n	Pesonia celifornica	Catifornia Peony
ø	Pectocarya sp.	Pectocarya
٥	Phacelia sp.	Phacelia
О	Pholistoma membranaceum	White Fresta Flower
Ω	(Plagiobothrys sp.)	Popcorn@ower
Ď	Plantago patagonica	Desert Plantain
O	Platystemon californicus	Cream Cups
G	Prunus ilicifolia	Holly-leaf Cherry
ö	Rafinesquia neomexicana	Desert Chicary
c	Ribes quercetorum	Oak Gooseberry
0	Rompe nasturtium-aquaticum	Water-cress
э	Rosa celifornica	California Rose
c	Sattugilia australis	Southern Gilia
2	Senecio californicus	California Butterweed
G	Senecia fleccidus	. Butterweed
Ċ.	Sidalcea malvaeflora	Checker-bloom
.0	Sisymbrium sp.	Tumble Mustard
О	Solidago californica	California Goldenrod
o	Stachys ajugoides	Hedge-nettle
n	Stephanomeria sp.	Wreathplant
0	Streptanthus campestris	Southern Jewelflower
9	Stylocline gnaphalioides	Everlasting Nest-stray
· 0 ·	Tetradymia comosa	Cotton-thorn
c	Thysanocarpus sp.	Fringepod
o	Trichostemma parishii	Mountain Bluecurls
G	Tropidocarpum gracile	Slender Dobie-pod
0	Uropappus lindleyi	Silver Puffs
۵	Viola purpurea	Oak Yellow Violet
٥		
э		
o	Other Flowering Plants:	
G		

Rare Wildlife or Rare Plants:

Recorder: Mine	COUFFER	_Add'l Person:		0	Da	te: <u>//</u> ,	APRIL,	<i>201</i> /	PS Unit :_	12
Project: <u>Concentrix So</u>	eler Project II	Лар#: <u>⟨</u> Sur	vey Sxn	سـ :ا	C QCB Pro	otocol Su	rvev#	3	of	5
TIME (24-hour)	Temp (F°);	Wind (avg/max)	% C(71					VI_	
(Fanisa)	71°F		<u> </u>	$\overline{}$			Sky			
				, 	clear -) patchy	Overcast	rizzl e	5*-04H45 .	
1600 HOS		D->2	محصي		. Ckar) paxxwy_	overcast.	drizzla	Sydnas.	
	<u> </u>		:		ctear	palchy	_overcas:	dnzzko	shower	
	<u> </u>				ಯೇಶ್	galchy	Overcasi	dozde	8/10/4/97	
	· i				nigar	patchy	ove/cast	ಲೆಗೆ ತ್ತಾ ಶಿಕ	shower	
					clear	patchy	overcast	€ izzle	shawer	
End				<u>;</u> -						
Habitat On-site (circle) one	n snils, hilltops,	ridges, rock outco	ops, soil d	crusts, o	clear slav soils (old roads)	various ne	overcael actar source	<u>عربحراة</u>	Shower	 -
			·	Total						Total
Nymphalidae (Brushfoote		<u>-</u>			Hesperiidae (Sk					<u>i </u>
Euphydryas editha (Quino			\perp		Erynnis funerali			g)		
Euphydryas chalcedona (I		erspot)	<u> </u>		Erynnis tristis (\$			<u>_</u>		i
Thessalia leanira (Wright's					Erynnis propert			ving)		
Chlosyne californica (Calif					Erynnis brizo (S					
Chiosyne gebbii (Gabb's C					Pyrgus commu			r)	·	1
Phyciodes mylitta (Mylitta			<u>!</u>		Hesperia jubia (
Junonia coenia (Common				\	Polites sabuleti					<u> </u>
Vanessa annabella (West			·· - _		Megathymidae (4					<u> </u>
Vanessa atalanta (Red Ad	· · · · · · · · · · · · · · · · · · ·				Megathymus yu	ccae (Yuc	ca Grant Sk	ipper)		ļ. <u></u>
Vanessa cardui (Painted I	• • • • • • • • • • • • • • • • • • • •		— <u>i</u>					<u> </u>		
Vanessa virginiensis (Virgi		n to a let			Other Butterfiles	<u>·</u>	<u> </u>			
Nymphalis californica (Ca		:			ļ					—
Danaidae (Milkweed Butter Danaus plexippus (Monard					i		<u> </u>			<u> </u>
Danaus gilippus (Queen)	- Trij									<u> </u>
Satyridae (Satyrs)		: .	 							
Coenonympha californica	Common Calife	smin Oundott								
Pieridae (Whites, Sulphurs	•	oma (mgtet)								'-
Pieris rapae (Cabbage Wh										+
Pontia sisymbrii (Spring W			· 							-!
Pontia beckerii (Beker's W									· ·-	
Pontia protodice (Common			— ļ-	1						+
Anthocheris sera (Sara Ora		_	·	- 1	i					!_ .
Anthocharis cethura (Felde				-	<u>-</u>					† —
Euchloe hyantis (Desert Pe				3						
Collas eurytheme (Orange	Sulphur)			U _						 .
Colias hartordii (Hartord's (Sulphur)			1 -						
Nathalis iole (Dainty Sulphi	ur)		$\neg \vdash$		-					· · · · · ·
Papillonidae (Swallowtails)		· :	·		Notes:		·:	······································		:
Papilio polyxanes (Desert 1		ait)			MCWW	05	WEST	ERN (OHIPTAIL	
Papilio eurymadon (Pale si										1
Papilio rululus(Western Tig	er Swaltowtail)	1								
Riodiniade (Metalmarks)	<u> </u>	<u> </u>								
Apodemia mormo (Behr's I				45						
Lycaenidae (Hairstreaks an			· ·	<u>.</u> !						į i
Celastrina ladon (Spring Az										<u> </u>
Leptotes marina(Marine Blu					·					- 7
Brephidium exile (Western		Service Co.	ļ_							<u></u>
Glaucopsyche lygdamus (S		iivery olue)	-	i						Ļ
Hemiargus ceraunus (Edwa										<u>:</u>
Icaria acmon (Acmon Blue)										
Philotes sonorensis(Sonora Callophrys augustinus (Bro				i						!
Callophrys augustinus (Bio Callophrys dumetorum (Pel		Hoiselands	-+							⊢ ⊢
Strymon melinus (Gray Hai		mairstreak)								 ∣
Attides halesus (Great Purp			- 1		 · · ·					<u></u> J
HOROLO HOROSEO (CHESE CUI)	ne remoti cat)	··	-+	-						

Instructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

_	Antirrhinum coulterianum	= AC Collinsia concolor = CC	Cordylanthus rigidus = CR Plantage
_	Amsinckia menziesii	Rancher's Fiddleneck	. 1 - 0
3		Coulter's Snapdragon	Osmadenia tenella Paeonia californica
٥		Nuttall's Snapdragon	
٥		Narrow-leaf Milkweed	c Peclocarya sp.
0	•	Rock Cress	 Phacelia sp.
			 Pholistoma membranaceum
		Red Maids	Plagiobothrys so.
Ð		Golden-bowl Mariposa Lily	o Plantago patagonica
. •		Morning-glory	 Platystemon californicus
¢	Camissonia sp.	Sun Cup	. Pronus ilicifolia
3		Paintbrush	 Rafinesquia neomexicana
0	Caulanthus heterophyllus	San Diego Jewelflower	 Ribes quercelorum
0	Caulanthus simulans	Payson's Caulanthus	 Rompa nasturtium-aquaticum
ʻa,		Buck Brush	: o Rosa californica
0	Ceanolhus greggii	Cup-leaf-titac	 Sallugilia australis
O	Ceanothus leucodermis	Chaparral Whitelhom :	 Senecio californicus
٥	Chaenactis artemisiifolia	White Pincushion	o Senecio flaccidus
0		Yellow Pincushion	 Sidalçea malvaeflora
.3	Clematis sp.	Clematis	 Sisymbrium sp.
. 0	Collinsia concolor	Southern Chinese Houses	 Solidago californica
G	Cordylanthus rigidus	Dark-tip Bird's Beak	 Stachys ajugoides
Ö	Coreopsis californica	California Coreopsis	 Stephanomeria sp.
0	Corethrogyne filaginilolia	Common Sand-aster	 Streptanthus campestris
O	Cryptantha sp.	Cryptantha	 Stylocline gnaphalioides
2	Cucurbila foetidissima	Calabazilla	 Tetradymia comosa
۰	Descurainia sp	Tansy-mustard	 Thysanocarpus so.
. 3	Dicentra chrysantha	Golden Ear-drops	 Trichostemma parishli
0	Dichelostemma capitatum .	Blue Dicks	 Tropidocerpum gracile
C	Dudleya sp.	Dudleya	 Uropappus lindleyi
a.	,	Whispering Bells	c Viola purpurea
0	Eriastrum sp.	Woolly-star	•
0	Encameria sp.	Goldenbush	0
О	Erigeron foliosus	Leafy Daisy	 Other Flowering Plants:
÷		Hairy Yerba Santa	0
э	Eriogonum fasciculatum	Inland California Buckwheat	•
٥	Erlogonum sp.	Buckwheat	
°.	Eriophyllum sp. Eriodium cicutarium*	Long-stern Golden-yarrow Red-stern Storksbill	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
a o		Western Wallflower	
.,	Erysismum capitatum Eschscholzia californica		•
٥	Eucrypta chrysanthemifolia	California Poppy Spotled Hideseed	9
٥	Euthamia occidentalis	Western Goldenrod	Danish Market Control
2	Garrya veatchii	Canyon Silk Tassel	c Rare Wildlife or Rare Plants:
0	Gilia sp.		5
٥	Gnaphalium	Cudweed	· a
0	Guillenia lasiophylla	California Mustard	0.
0	Gutierrezia sarothrae	Broom Malchweed	
ò	Heliotropium curassavicum	Salt Heliotrope	
0	Hirshfeldia incana	Short-pod Mustard	
0	Lamium emplexicaule	Henbit	
a,	Lasihenia grecilis	Common Goldfields	0 2A 44A
٠.`	(Layia glandulosa)	White Layla	
0	Lepidium sp.	Pepperweed	
a	Linanthus bellus	Desert Beauty	
0	Linenthus dichotomus	Evening Snow	
0	Lonicera subspicata	Johnston's Honeysuckie	
D	Malacothrix californica	California Dandelion	
0	Malacothrix clevalandii	Cleveland's Malacothrix	
a	Marah macrocarpus	Wild-cucumber	Section 1. The section of the sectio
ĺη.	Marrublum vulgare*	Horehound:	0
9	Matricaria matricarloides*	Common Pineapple-weed	0
$\cdot \mathbf{G}'$	Mentzelia veatchiana	Veatch's Stick-leak	0
٥	Microsteris gracilis	Stender Phlox	0
. 0	Mimulus sp.	Monkeyflower	
э	Nemophila menzeisii	Small-flower Baby Blue Eyes	• 1.4 .1.4 · · · · ·
6	Orobanche bulbosa	Chaparral Broom-rape	

D	Osmadenia tenella	Osmađenia
э.	Paeonia californica	California Peony
C	Peclocarya sp.	Pectocarya
•	Phacelia sp.	Phacelia
,	Pholistoma mambranaceum	White Fiesta Flower
1	Plagiobothrys sp.	Popcomflower .
, `	Plantago patagonica	Desert Plantain
,	Platystemon californicus	Cream Cups
,	Prunus ilicifolia	Holly-leaf Cherry
•	Rafinesquia neomexicane	Desert Chicory
ŀ	Ribes quercelorum	Oak Gooseberry
ď	Rompa nasturtium-aquaticum	Water-cress
1	Rosa californica	California Rose
	Sallugilia australis	Southern Gilia
•	Senecio californicus	Catifornia Butterweed
,	Senecio flaccidus	Butterweed
+	Sidalcea malvaeflora	Checker-bloom
	Sisymbrium sp.	Tumble Mustard
	Solidago californica	California Goldenrod
	Stachys ajugoides	Hedge nettle
	Stephanomeria sp.	Wreathplant
	Streptanthus campestris	Southern Jewelflower
	Stylooline gnaphalipides	Everlasting Nest-straw
•	Tetradymia comosa	Cotton-thorn
	Thysanocarpus sp.	Fringepod
•	Trichostemma parishli	Mountain Bluecuris
	Tropidocerpum gracile	Slender Dobie-pod
	Uropappus lindleyi	Silver Puffs
	Viola purpurea	Oak Yellow Violet

${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey-Field\ Data\ Sheet}$

Recorder: Mithe Courses Addil Per	son:	Date	: 15 APRIL, 2	<u> </u>	PS Unit :_	6
Project: Concentrix Solar Project Map #: 6	Survey Sxn:	QCB Prote	ocol Survey#	3	of	5
TIME (24-hour) Temp (F*): Wind (avg/m	ax) % CC		Sky			
sun 0900 66 175M						
			palchy evercust	¢n2.de	epowar.	
	<u> </u>		patrhy overcast	C'izzie	shewer	
1.00 71 3-10	—I -		patchy overcasi	drizzle	shower	
_ !	1	6.634	putchy overgasi	onzzie	showe -	
		ctear				—· ·-—
			<u>Calciny</u> <u>Overcast</u>	day.68	SINOWER	
 			_pea chy over cast	6972 [*] 8	2 ³ 10/ayer	
End		<u>cl</u> ear	poschy overcast	r£i <u>zzie</u>	shower	
Habitat On-site (circle); epen soils, hilltops, ridges, rock of	outcrop), soil crusts,	clay soils, old roads, v	Frious nectar source	es)		
	Total					Total
Nymphalidae (Brushfooted Butterflies)		Hesperiidae (Skłp)				<u> </u>
Euphydryas editha (Quino Checkerspot)			(Funereal Duskywir	ig)		<u> </u>
Euphydryas chalcadona (Henne's Checkerspot)		Erynnis tristis (Sa	d Duskywing)			
Thessalia leanira (Wright's Checkerspot)		Erynnis propertius	s (Propertius Dusky	wing)		1
Chlosyne californica (California Patch)		Erynnis brizo (Sle	epy Duskeywing)			
Chlosyne gabbii (Gabb's Checkerspot)		Pyrgus albescens	(Checkered Skippe	er)	-	—: ——
Phyciodes mylitta (Mylitta Crescent)		Hesperia jubia (Ju		-		T -
Junonia coenia (Common Buckeye)		Polites sabuleti (S				+ $-$
Vanessa annabella (West Coast Lady)		Megathymidae (Gi				
Vanessa atalanla (Red Admiral)			se (Yucca Giant St	kioper)		<u> </u>
Vanessa cardui (Painted Lady)						
Vanessa virginiensis (Virginia Lady)		Other Butterflies:				- _i
Nymphalis californica (California Tortoiseshell)	-					+ -
Danaidae (Milkweed Butterflies)		· 				
Danaus plexippus (Monarch)	_· 	· ·			—· ·–	
Danaus gilippus (Queen)	·- 	 		· · · —		
Satyridae (Satyrs)		<u> </u>				
Coenonympha californica (Common California Ringlet)		 				
Pieridas (Whites, Sulphurs)	·	·				
Pieris rapae (Cabbage White)	 -	·				
Pontie sisymbrii (Spring White)	·· ———		·			
Pontia beckerii (Beker's White)	_ +					
Pontia protodice (Common White)	——· ——	<u> </u>				
Anthocharis sara (Sara Orangetip)	— 	 				 -
Anthocharis cethura (Felder's Orangetip)		 	<u></u> .			.
Euchice hyantis (Desert Pearly Marble)						
Collas eurytheme (Orange Sulphur)	<u>3</u>		<u></u>			ાં ઃ——
Colies harfordii (Harford's Sulphur)		ļ				<u> </u>
		 				
Nathalis idle (Dainty Sulphur)	_· _	<u>, </u>	- · ·		<u> </u>	
Papilionidae (Swallowtails)		Notes:		<u></u>	•	
Papilio polyxenes (Desert Black Swallowtail) Papilio eurymedon (Pale swallowfail)	ļ	WCOZOL	<u> Лас</u> кр <u>ав</u>	<u> </u>		i
	——	. ഡ 620 <u>න</u>	''			[!
Papilio rutulus(Western Tiger Swaltowtail)		↓				<u> </u>
Riodiniade (Metalmarks)		l				
Apodemia mormo (Behr's Metalmark)						<u> </u>
Lycaenidae (Hairstreaks and Blues)	:	<u> </u>				
Celastrina ladon (Spring Azure)	<u> </u>	<u>.</u>				
Leptoles marina (Marine Blue)		<u> </u>				
Brephidium exite (Western Pygmy Blua)	l					
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	:					
Hemiergus cereunus (Edward's Blue)						
Icaria acmon (Acmon Blue)						
Philotes sonorensis (Sonoran Blue)						
Callophrys augustinus (Brown Elfin)						1
Callophrys perplexa (Perplexing Green Hairstreak)						
Strymon melinus (Gray Hairstreak)		L				
Atlides halesus (Great Purple Hairstreak)						
·	"-					⊣ —∹

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G Orio

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Instructions:

Mimülus sp.

Nemophila menzeisii

Orobanche bulbosa

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterianum	i = AC Collinsia concolor =
-0	Amsinckia menziesii	Rancher's Fiddleneck
2		Coulter's Snapdragon
0	Antirrhinum nuttəllianum	Nuttall's Snapdragon
o	Asclepias fascicularis	Narrow-leaf Milkweed
o	Boechera sp.	Rock Cress
o	Calandrinia ciliata	Red Maids
Ω	Galochertus conçolor	Golden-bowl Mariposa Lity
r)	Calystegia longines	Morning-glory
O	Camissonia sp.	Sun Cup
G	Castilleja exerta	Paintbrush
0	Caulanthus heterophyllus	San Diego Jewelflower
9	Caulanthus simulans	Payson's Caulanthus
o	Ceanothus cuneatus	Buck Brush
О	Ceanothus greggii	Cup-leaf-lilac
c	Ceanolhus leucodermis	Chaparral Whitethom
Ω	Chaenactis artemisiifolia	White Pincushion
'n	Chaenactis glabriuscula	Yellow Pincushion
O	Clematis sp	Clematis
0		Southern Chinese Houses
٥.	Cordylanthus rigidus	Dark-Up Bird's Beak
ς.	Coreopsis californica	California Coreopsis
9	Corethrogyne filaginifolia	Common Sand-aster
ح	Cryptantha sp.	Cryptantha .
े	Cucurbita foetidissima	Calabazilla
	Descurainia sp.	Tansy-mustard
0	Dicentra chrysantha	Golden Ear-drops
ο.		Blue Dicks
O	Dudleya sp.	Oudleya
0	Emmenanthe pendulifera	Whispering Bells
0	Eriastrum sp.	Woolly-star
0	Ericameria sp.	Goldenbush
0	Erigeron foliosus Eriodictyon trichocalyx	Leafy Daisy
a	Eriogonum fasciculatum	Hairy Yerba Santa Inland California Buckwheat
0	Eriogonum sp.	Buckwheat
0	Eriophyllum sp.	Golden-varrow
ő	Erodium cicutarium*	Red-stem Storkshill
0	Erysismum capilatum	Western Wallflower
10	Eschscholzia californica	California Poppy
G	Eucrypta chrysanthemifolia	Spotted Hideseed
0	Euthamia occidentalis	Western Goldenrod
2	Garrya veatchii	Canyon Silk Tassel
٥	Gilia sp.	Gijia
a	Gnaphalium	Cudweed
c	Guillenia lasiophylla	California Mustard
0	Gutierrezia sarothrae	Broom Matchweed
٥.	Heliotropium curassavicum	Sall Heliotrope
o	Hirshfeldia incana	Short-pod Mustard
1)	Lam <u>ium ampl</u> exicaule	Henbit
97	Lasthenia gracilis	Common Goldfields
9	A avia glandulosa	White Layia
5	Lepidium sp.	Pepperweed
Φ.	Linanthus bellus	Desert Beauty
O	Linanthus dichotomus	Evening Snow
O	Lonicera subspicata	Johnston's Honeysuckle
О	Malacolhrix californica	California Dandelion
r)	Malacothrix clevelandii	Cleveland's Malacothrix
O	Marah macrocarpus	Wild-cucumber
f.J	Marrubium vulgare*	Horehound
e.	Matricaria matricarioides*	Common Pineapple-weed
5	Mentzelia vealchiana	Veatch's Stick-leak
5	Microsteris gracilis	Stender Phiox MonkeyBower
	SOUTH TO SEE	MICOREVONIVE

Monkeyflower

Small-flower Baby Slue Eyes

Chaparral Broom-rape

	Osmadenie tenella	Osmađenia
1	Paeonia californica	California Peony
	Pectocarya sp.	Pectocarya
	Phacelia sp.	Phacelia
	Pholistoma membranaceum	White Fiesta Flower
•	Plagiobothrys sp.	Popcomflower
	Plantago palagonica	Desert Plantain
	Platystemon californicus	Cream Cups
	Prunus ilicifolia	Holly-leaf Cherry
	Rafinesquia neomexicana	Desert Chicory
	Ribes quercetorum	Oak Gooseberry
	Ronipa nasturtium-aquaticum	Water-cress
	Rosa californica	California Rose
	Saltugilia australis	Southern Gilia
	Senecio californicus	California Butterweed
	Senecio flaccidus	Butterweed
	Sidalcea malvaeflora	Checker-bloom
	Sisymbrium sp.	Tumble Mustard
	Solidago californica	California Goldenrod
	Stachys ajugicides	Hedge-nettle
	Stephanomeria sp.	Wreathplant
	Streptanthus campestris	Southern Jewelflower
	Stylocline gnaphalioides	Everlasting Nest-straw
	Tetradymia comosa	. Cotton-thorn
	Thysanocarpus sp.	Fringepod
	Trichostemma parishii	Mountain Bluecaris
	Tropidocarpum gracile	Slender Dobie-pod
.:	Uropappus lindleyi	Silver Puffs
	Viola purpurea	Oak Yellow Violet
·	Other Flowering Plants:	•
		·

Rare Wildlife or Rare Plants:

Recorder: MINE COUFFED Add'l Person:			
Project: Concentrix Solar Project Map #: 3 Surve	y Sxn:	QCB Protocol Survey # 4 of 5	
TIME (24-hour) Temp (F*): Wind (avg/max)	% CC		
Star 1100 H25 60°F 8-> 4 M7H	25%		
1200 H25 68 2-4m241	+	cleur (patrony) ovoregel drizzie strango:	
,		cloar paidly overcast digita shower	_
1300 HZS 7/2 2 2/1088	40%	tions (policity) everensi deuzde shower	
1400 H25 71 8-> 15mpH	90%	close policity (everaged) dozzie strawar	
		clear paichy overcest crizzle scrawer	
			-
 	- +	great paichy overcust grizze shower	
End :		ctear patchy overcost disade shower	
Habitat On-site (circle): open solls, hilltops, tidges, rock outcrop	š. <u>soil crusts,</u> c Total		iotal
Nymphalidae (Brushfooted Butterflies)		Hesperiidae (Skippers)	Otal
Euphydryas editha (Quino Checkerspot)	· -	Erynnis funeralis (Funereal Duskywing)	
Euphydryas chalcodona (Hanne's Checkerspol)	+	Erynnis tristis (Sad Duskywing)	
Thessalia leanira (Wright's Checkerspot)	-	·	a
Chlosyne californica (California Patch)	·-	Erynnis brizo (Sleepy Duskeywing)	_ب
Chlosyno gabbii (Gabb's Checkerspot)	— †—	Pyrgus albescens (Checkered Skipper)	_
Phyciodes myliita (Mylitta Crescent)	 -	 	
Junonia cocnia (Common Buckeye)	_	Hesperie jubia (Jubia Skipper)	15
Vanessa ennabella (West Coast Lady)		Polites sabuleti (Sandhill Skipper)	
Vanessa atalante (Red Admiral)	 -	Megathymidae (Glant Skippers)	
Vanessa alalama (Red Admiral) Vanessa cardul (Painted Lady)		Megathymus yuccae (Yucca Giant Skipper)	_
Vanessa varginiensis (Virginia Lady)			
Nymphalis californica (California Tortoiseshell)		Other Butterflies:	
Danaidae (Milkweed Butterfiles)		YAMEDA 57.	<u>ਨ</u> ੂ
Danaus plexippus (Monarch)	— —	 	
	.—	<u> </u>	
Danaus gilippus (Green) Satyridae (Satyrs)	—	<u></u>	
Coenonymphe celifornica (Common California Ringlet)	'		_
Pieridae (Whites, Sulphurs)		·	
	·	<u> </u>	
Pieris rapae (Cabbage White)	→ —	 	
Pontia sisymbrii (Spring White)		<u> </u>	
Pontia beckerii (Beker's White)			
Pontia protodice (Common White)			
Anthocheris sara (Sara Orangetip)	-	<u> </u>	
Anthocharis cethura (Felder's Orangetip)	—↓ ——	<u> </u>	
Euchloe hyantis (Desert Pearly Marble)	_	<u> </u>	
Colias eurythome (Orange Sulphur)	—↓ .—	<u> </u>	l
Colies harfordii (Harford's Sulphur)			
Nathalis iole (Dainty Sulphur)			
Papilionidae (Swallowtails)	<u> </u>	Notes:	
Papilio polyxenes (Desert Black Swallowtail)		MCWOOD WESTERN WHIPTAIL	
Papilio curymedon (Pale swallowtail)	<u> </u>	MK MW OD 11	.—
Papilio rutulus(Western Tiger Swallowfall)		mewwo3 "	
Riodiniade (Metalmarks)	<u></u>	MCBJOI BLACK-TAKED ACKNINGER	
Apodemia mormo (Behr's Metalmark)	<u>. 35</u>	MCHLOI MORNED LIZARD	
Lycaenidae (Hairstreaks and Blues)			٦
Colastrina ladon (Spring Azure)			_ ;
Leptotes marina (Marine Blue)	T	<u> </u>	· 1
Brephidium exile (Western Pygmy Blue)	\Box		$\neg \neg$
Glaucopsyche lygdamus (Southern Blue/Silvery blue)	Ē	<u> </u>	
Hemiargus ceraunus (Edward's Blue)			.
Icaria acmon (Acmon Blue)	- I		•
Philoles sonerensis (Sonoran Blue)	·	† —— — — — —	- 1
Callophrys augustinus (Brown Elfin)	\neg	T. — — — — — —	: <u>}</u>
Callophrys parplexa (Perplexing Green Hairstreak)	-	† 	- 1
Strymon molinus (Gray Hairstreak)		 	
Atlides halesus (Great Purple Hairstreak)		† 	·-
	† —	· — — — — — — — — — — — — — — — — — — —	

antial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

Antibritation interlocation and interlocation an		And the second second	Danish Cidanna		
Anterhinium nutaliliarum Anterio leuri Mikweed Boochrea se, Boochrea se, Boochrea se, Boochrea se, Boochrea se, Calendrina cinible Calcharitus concolor Calystoria dingligae Calystoria dingligae Calystoria dingligae Caluminus simulena Candinium selendinyllus Californium selendinyllus Cali	G	Amsinckia menziesii	Rancher's Fiddleneck	 Osmadenia tenella 	Osmadenia
Asteripias fascicularia: Boscheros sp. Calendrinia cibiala Calebohatis sconocior Calebohatis sconocior Calebohatis sconocior Calebohatis sconocior Carissoria sp. Caristoria sp. Carissoria sp. Caristoria sp. Caristor		• • • • • • • • • • • • • • • • • • • •			California Peony
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.c. Orobanone durbosa Chaparral Broom-rape	· ·			20 · · · · · · · · · · · · · · · · · · ·	Seculificación de la companie de la
	,G	. Cropanone autosa	Chaparral Broom-rape		

Recorder: MINE COUFFEE Add Person: Jimmy Mc	MOLEAN Date: 30 APRIL, 2011 GPS Unit : 6
Project: Concentrix Solar Project Map #: 6 Survey Sxn:	QCB Protocol Survey # 4 of 5
TIME (24-hour) Temp (F*); Wind (avg/max) % CC	
	<u></u>
SIAM 0930 HRS 64°F 3-> 6MPH 5%	dear patchy overcast drizzio shower
1000 HRS 71 0-3 mpy 5%	cinar policity overcasi drizzlo shower
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1145 HOS 35° 5-4MOH @	close paychy overcast district shower
	close patchy evercast dearful stander
}	clear patchy overcass durate shower
End	close patchy overcast disato shower
Habitat On-site (circle): open sols, hilltops (ridges, rock outcrops, soil crusts, c	lay soils, old roads, various nectar sources
Nymphalidae (Brushfooted Butterflies)	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Checkerspol)	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Eryonis brizo (Steepy Duskeywing)
Chiosyne gabbii (Gabb's Checkerspot)	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesperia jubia (Jubia Skipper)
Junonia coonia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)
Vanessa annalivila (West Coast Lady)	Megathymidae (Giant Skippers)
Vanessa atalanta (Red Admiral)	
Vanossa cardui (Painted Lady)	Mogathymus yuccae (Yucca Giant Skipper)
Vanessa virginiensis (Virginia Lady)	Other Butterflies:
Nymphalis californica (California Tortoiseshell)	
Danaidae (Milkweed Butterfites)	COM MOS SOUTH OF
Danaus plexippus (Monarch)	CHECKERSPOT 5 P.
Denaus gillpous (Queen)	·
Satyridae (Satyrs)	
Coenonympha californica (Common California Ringlet)	·—— ·—— ·— ·
Pleridae (Whites, Sulphurs)	<u> </u>
Pieris rapae (Cabbage White)	
Pontla sisymbrii (Spring White)	<u> </u>
Pontia beckerii (Beker's White)	
Pontia protodice (Common White)	· · · · · · · ·
Anthocharis sara (Sara Orangetip)	
Anthocharis sala (sara Orangetip) Anthocharis cethura (Felder's Orangetip)	
	 -
Euchloe hyanlis (Desert Pearly Marble) Colias ourytheme (Orange Sulphur)	·
Collas barfordii (Harford's Sulphur)	<u> </u>
Nathalis iole (Dainty Sulphur) Papilionidae (Swallowtails)	<u></u>
Papilio polyxenas (Desert Black Swallowfail)	Notes:
Papilio polyxonas (Desert Black Swallowfail) Papilio eurymedon (Pale swallowfail)	[
Papilio etrymedori (Pale swallowiali) Papilio rutulus(Western Tiger Swallowiali)	
	<u> </u>
Apodemia mormo (Behr's Metalmark) /05 Lyczenidae (Hairstreaks and Blues)	<u> </u>
Celastrina ladon (Spring Azere)	
Leplotes marina (Marine Blue)	
Brephidium exile (Western Pygmy Blue)	
Glaucopsyche lygdanus (Southern Blue/Silvery blue)	
Hemiargus ceraunus (Edward's Blue)	
loarie acmon (Acmon Blue)	
Philotes sonorensis (Sonoran Blue)	
Callophrys augustinus (Brown Elfin)	
Callophrys perploxa (Perplexing Green Hairstreak)	
Strymon melinus (Gray Hairstreak)	
Attides halesus (Great Purple Hairstreak)	

tease Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

					
o	Amsinckia menzlesii	Rancher's Fiddleneck	1 -	Osmadenia tenella	Osmađenia
. 0	Antirrhimum coulterianum	Coulter's Snapdragon	0	Paeonia californica	California Peony
Ð	Antimhinum nuttallianum	Nuttall's Snapdragon		Pectocarya sp	Pedocarya
c	Asclepias fascicularis	Narrow-leaf Milkweed		Phacelia sp.	Phacelia
ъ.	Boechera sp.	Rock Cress	ء ا	Pholistoma membranaceum	White Flesta Flower
	Calandrinia ciliata	Red Maids		Plagiobothrys sp.	Popcomitower
0	· Calochortus concolor.	Golden-bowl Mariposa Lity	0	Plantago patagonica	Desert Plantain
۰	Calystegia longipos	Morning-glory	٠ <u>،</u>	Platystemon californicus	Cream Cups
۰.	Camissonia sp.	Sun Cup	o o	Prunus ilicifolia	Holly-leaf Cherry
o	Castilleja exerta	Paintbrush	G	Ralinosquia neomexicane	Desert Chicory
0	Caulanthus heterophyllus	San Diego Jewelflower	a	Ribes guercelorum	Oak Goosebarry
0	Caulanthus simulans	Payson's Caulanthus	ه ا	Romipa nasturtium-aquaticum	Water-cress
ů.	Ceanothus cuncatus	Buck Brush	0	Rosa californica	California Rose
a	Ceanothus greggit	Cup-leaf-filac	o.	Saltugilia australis	Southern Gilia
. a '	Ceanothus leucodermis	Chaparral Whitelhorn	0	Senecio californicus	California Butterweed
ø	Chacnaclis artemisiifolia	White Pincushion	'n	Senecio flaccidus	Bufterweed
, O	Chaenactis glabriuscula	Yellow Pincushion	0	Sidalcea malvaeflora	Checker-bloom
e.	Clematis sp.	Ctematis	0.	Sisymbrium sp.	Tumble Mustard ···
a		Southern Chinese Houses	0	Solidago californica	California Goldenrod
	Cordylanthus rigidus	Dark-tip Bird's Beak	7.6 €	Stachys ejugoides	Hedge-nettle
O	Coreopsis californica	California Coreopsis	o.	Stephanomeria sp.	Wreathplant
0	Corethrogyne filaginifolia	Common Sand-aster	ο.	Streptanthus campestris	Southern Jeweltlower
9	Cryptaniha sp.	Cryptantha	0	Stylocline gnaphalioides	Everlasting Nest-straw
a	Cucurbita foetidissima	Calabazilla	. 9 :	Tetradymia comosa	Cotton-thorn
r)	- a-amana apr	Tansy-mustard	.0	Thysanocarpus sp.	Fringepod
	Dicentra chrysantha	Golden Ear-drops	- 0	Trichostemma parištiii	Mountain Bluecuris
. 0	Dichelostemma capitatum	Blue Dicks	. 0	Tropidocarpum gracile	Slender Dobre-pcd
0	Oxdieya sp.	Dudleya	. 0	Uropappus lindleyi	Silver Puffs
0	Emmenenthe pendulifera	Whispering Bells	ے° ا	Viola purpurea	Oak Yellow Violet
.o.	Eriastrum sp. Ericameria sp.	Woolly-star	°(-	RHUS OUATA	
_	Erigeron foliosus	Goldenbush	10.		
0	-Eriodictyon frichocalyx	Leafy Daisy Hairy Yerba Santa	0	Other Flowering Plants:	`:.
0	Eriogonum fasciculatum	Inland California Buckwheat	°.		
(۵)		Buckwheat	°		
	Eriophyllum sp.	Golden-yarrow	. 0		
a.		Red-stem Storksbill			• • • • • • • • • • • • • • • • • • • •
0	Erysismum capitatum	Western Waliflower	. ຼື		
ο.		California Poppy	``` ·		
ъ.	Eucrypta chrysanthemifolia	Spotted Hideseed	1	·	
	Euthamia occidentalis	Western Goldenrod	<u>"</u>	Rare Wildlife or Rare Plants:	
o	Garrya veatchii	Canyon Silk Tassel			•
6	Gilia sp.	Gilia			
n	Gnaphalium	Cudweed	187		
O	Guillenia lasiophylla	California Mustard			
0	Gutierrezia sarothrae	Broom Matchweed	. 0.		; ; ; · · · · · · · · · · · · · · · · ·
0.	·· Heliotropium curessavicum	Saft Heliotrope	٥		
\mathbf{c}	Hirshfeldiə incenə	Short-pod Mustard	1.60		
` ô `	Lamium əmplexicaulə	Henbit	0		
⊸(Lasthenia gracilis	Common Goldfields	1.0		·
0.(Layia glandulosa /	White Layle	0		
C	Lepidium sp.	Pepperweed	. 0'		
o	Linanthus belius	Desert Beauty	٥		
0	Linanthus dichotomus	Evening Snow	. 0		
C	Lonicera subspicata	Johnston's Honeysuckle	. 0		
0	Malacothrix californica	California Dandelion	.ه		
ě.	Malacothrix clovelandii	Cleveland's Malacolfirix	٥.		_
0	Marah macrocarpus	Wild-cucumber	. 6	. :::::	
1)	Marrubium vulgare*	Horehound	1 0		
°:	Matricaria matricarioides* Mentzelia veatchiana	Common Pineapple-weed	. 0		
٥	Microsteris gracilis	Veatch's Stick-leak Stender Phlox			
ο.	Mimulus sp.	Monkeyflower	: 0		
0.	Nemophila monzeisii	Small-flower Baby Blue Eyes			
0.	Orobanche bulbasa	Chaparral Broom-rape	• ••		
·	Transfer of the second	www.circloredia-rape	l		

Recorder: Mike C	OUFFER	Add'l Person: _		8	Date	: <u>28</u> ,	APRÎ,	<u> 2011</u> G	PS Unit :	
Project: Concentrix So	lar Project -N	fap #:Sur	vey Sx	n:	<u>ව QCB Prote</u>	ecol Sur	vey#	_5	of	5
TIME (24-hour)	Temp (F*):	Wind (avg/max)	% (ce			Sky			
SELT 0900HRS	नु३०६	ነ ማ ች የአንያዘ	0	>	(dea)	patchy	overcast	dfæzi e	shower	
1000 HRS	84°F	Ø-> 2.	7	>	<u>₹</u>		• · · ·			
1100 Hes	84°F	Ø-2!	<u>×</u>			patchy	overcest	drizzle	shower	
			<u>- 1</u>	7		paichy	Overcast	duzza	SHOWER	
1200 HRS	₹9°F	3-20			<u> </u>	asichy	overcast	drizzig	shower	
1300 HQS	<u>&</u> ∂,°F	1-5		<u>≯</u>	ctsar	patchy	evercest	drazie	shower	
1400462	79°F	3-710		<u>></u>	েন্দ্ৰ	palchy	overcest	drizzte	5757W6F	
End 1500HQS	୫୦୧୮	4-> 10	É	₃	(C'est)	palchy	overcast	0122 16	Shower	-
Habital On-site (circle): open	soils hilltone.	ridges, reck outer	pš soi	cruste_c	av soils≲old roads(v	arious ne	ctar source	<u>-</u>	·	
				Total	—		,			Total
Nymphalidae (Brushfooted		<u> </u>			Hesperiidae (Skip	pers)	15 (* _{1.5} 47)	V-100	1,500	
Euphydryas editha (Quino					Erynnis funeralis			g)		
Euphydryas chałcedona (i		erspot)			Ērynnis tristīs (Sa					
Thessalia leanira (Wright's					Erynnis propertiu	' !	•	Ming)		<u> </u>
Chlosyne celifornica (Califo					Erynnis brizo (Sle		- +-	 .		<u> </u>
Chlosyne gebbii (Gabb's C					Pyrgus albescent			it)	•	! ! !
Phyciodes mylitta (Mylitta Junonia coenia (Common				4.1	Hesperia jub a (J					1
Vanessa annabelia (West	- '			11	Polites sabuleti (•• •			
Vanessa afalanta (Red Ad					Megathymidae (G Megathymus yuc			innel		
Vanessa cardul (Painted I	· ·			<u> </u>	weganymus yuc	cae (100	ca Giant Sk	apperi		
Vanessa virginiensis (Virgi			 ∵-j		Other Butterflies:	7 et et 200	v V- v. n - m		****** * * *.	
Nymphalis californica (Ca		shelfi	-		Questinos.		- 6		- 1	+
Danaldae (Milkweed Butter			7 5ail		PHOLISORA C			TON DOC	LL CONNEY	+ ' -
Daneus plexippus (Monarc		Agric Charles & Victoria			(N) ER LEGIN AL	MICELY.	RICE			ļ <u>.</u>
Danaus gilippus (Queen)										
Satyridae (Satyrs)	- 1/986(15.1.j.)							•		+ -
Coenonympha californica										
Pleridae (Whites, Sulphurs		NAPES CANDAGES	3 10 1					•		1
Pieris repae (Cabbage Wh										
Pontie sisymbril (Spring W										
Pontie beckerii (Beker's W										
Pontis protedice (Common	,			<u> 닉</u>						
Anthochens sara (Sara Or.										
Anthochans cethura (Felde			i							<u> </u>
Euchloe hyentis (Desert Pe Colles eurytheme (Orange										<u> </u>
Collas harfordii (Harford's				<u>3</u> 0						
Nathelis iole (Dainty Sulph	7			<u>6</u> _						1
Papilionidae (Swallowialis		1.4 (1.7) a 12 (1.4 (1.4)	·.:	_1_	Notes:		3		* *	
Papilio polyxanes (Desert	Black Swallowt	aill			74444	1		<u> </u>	<u> </u>	· i ·····-
Papilio eurymedon (Pale s		•								1
Papilio rutulus(Western Tig		j) ·			· - ··					
Riodiniade (Metalmarks):	3 4 47 TAG		77.							+
Apodemia mormo (Behr's i	Metalmark)			135						
Lycaenidae (Hairstreaks ar	nd Blues)	441 A D 1844	**:							1
Celestrina ladon (Spring A		,——··								†
Leptoles marina (Marine B							-			1
Brephidlum exile (Western										T
Glaucopsyche tygdamus (Silvery blue)		1						
Hemiargus ceraunus (Edw										
icaria acmon (Acmon Blue	•			띡						
Philotes sonorensis (Sono.					,					
Callophrys augustinus (Bro		-1			··					ļ
Callophrys perplexa (Perpl		austreak)							•	1
Strymon melinus (Gray Ha Atlides halesus (Great Pur		. 								1
Unidos maiesna (raida) Mili	ре папытеак)				I					1

Instructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC, Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

•	Amsinckia menziesii	Rancher's Fiddleneck
O	Antiritilmum coulterianum	Coulter's Snapdragon
6	Antimhinum nuttellianum	Nuttall's Snapdragon
o	Asclepies fescicularis	Narrow-leaf Milkweed
0	_ 1	Rock Cress
Ð	Calandrinia ciliata	Red Maids
D	" P = "2 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1 " 1	Golden-bowl Mariposa Lily
0	Celystegia longipes	Morning-glory
6	Camissonia sp.	Sun Cup.
Ð	Castiffeja exerta	Paintbrush
0		San Diego Jewelflower
0	Caulanthus simulans	Payson's Caulanthus
0		Buck Brush
0	Ceanothus greggli	Cup-leaf-lilac
o		Chaperral Whitelhorn
0	Chaenactis artemisiifolia	White Pincushion
o.	Chaenactis glabriuscula	Yellow Pincushion
o	Clematis sp.	Clematis
6		Southern Chinese Houses
O	Cordylanthus rigidus	Dark-tip Bird's Beak
0	Coreopsis californice	California Coreopsis
0	Corethrogyne filaginifolia	Common Sand-aster
0	·· ········ - ·· - ····· · · ·· · · · · ·	Cryptantha
	Cucurbita foetidissima	Calabazilla
·o·	Descurainia sp.	Tansy-mustard
o	Dicentra chrysantha	Golden Ear-drops
o	Dichelostemme capitalum	Blue Dicks
0	Dudleya sp.	Dudleya
Ò	Emmenenthe pendulifera	Whispering Bells
٥	Edestrum sp.	Woolly-star
ø,	(Ericameria sp.)	Goldenbush
ø	Erigeron foliosus	Leafy Daisy
o	Erlodictyon trichocalyx	Hairy Yerba Santa
۵	Erlogonum fasciculatum	Inland California Buckwheat
٥	Erlogonum sp:	Buckwheat
0	Eriophyllum sp.	Golden-yarrow
Ö.	Erodium cicutenum*	Red-etem Storksbill
۰.	Erysismum capitatum	Western Waliflower
. 🔅	Eschscholzia californica	California Poppy
٥	Eucrypla chrysanthemifolis	Spotted Hideseed
0		Western Goldenrod
0	Garrya veatchii	Canyon Silk Tassel
Đ,		Glia (1777)
.0	Gnaphalium	Cudweed
0		California Mustard
۰.	Gulierrezia sarothrae	Broom Matchweed
ο.	Heliotropium curassavicum	Salt Hellotrope
0	Hirshfeldie incene	Short-pod Mustard
O.	Lamium amplexicaule	Henbit
	Lasthenia gracilis	Common Goldfields
۰.	(Leyia glandulose)	White Layin
	Lepidium sp.	Pepperweed
	Linanthus bellus	Desert Beauty
0	Linanthus dichatomus	Evening Snow
.2.	Lonicera subspicata	Johnston's Honeyauckle
0	Melacothrix californica	California Dandelion
٩	Maiacolhrix clevelandii	Cleveland's Malacothrix
٥	Marah macrocarpus	Wild-cucumber
0	Marrubium vulgare*	Horehound
٠.	Matricaria matricarioides*	Common Pineapple-weed
٥	Mentzella vestchiena	Veatch's Stick-leak
U	Microsteris gracilis	Slander Phiox
0	Mimulus sp. Nemophila menzeisil	Monkeyflower
٩٥	Orobanche bulbosa	Small-flower Baby Blue Eyes
-	Citationa corposa	Chaparral Broom-rape

0	Osmadenia tenella	Osmadenia
•	Paeonia californica	California Peony
o	Pectocerya sp.	Pectocarya
:	Phacelia sp.	Phacelia
,	Pholistoma membranaceum	White Flesta Flower
٥	Plaglobothrys sp.	Popcomflower
0	Plantago patagonica	Desert Plantain
) :"	Platystemon californicus	Cream Cups
٠.	Prunus Hicifolia	Holly-leaf Cherry
3	Rafinesquia neomexicana	Desert Chicary
,	Ribes quercetorum	Oak Gooseberry
·	Rompa nasturtium-aquaticum	Water-cress
>	Rose californice	California Rose
5.	Saltugilla australis	Southern Gilia
•	Senecio californicus	California Buttenveed
s:	Senecia flaccidus	Butterweed :
•	Sidelcea maivaellora	Checker-bloom
	Sisymbrium sp.	Tumble Mustard
3	Solidago californica	California Goldenrod
Ď.	Stachys ajugoides	Hedge nettle
o.	Stephanomeria sp.	Wreathplant
9.	Streptanthus campestris	Southern Jewelflower
3-	Styloctine gnaphelloides	Everlasting Neet-straw
э.	: Tetradymia.comosa	Cotton-thorn
•	Thysanocarpus sp.	Fringepod
•	Trichostemme parishii	Mountain Bluecuris
3-	Tropidocarpum gracile	Slender Doble-pod
3 .	Uropappus lindleyl	Silver Puffs
3	Viola purpurea	Oak Yellow Violet
0		
9		-
٥.	Other Flowering Plants:	
5 (RHUS OVATA	SUGHE BUSH
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	Rare Plants: Rep-Taken MAWK NEST
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Recorder: Mara	ic Mulli	_Add'l Person:	·	Date: 5 . 2 . 11 GPS Unit : 2	1500
Project: Concentrix S	olar Project_N	лар#: 7 Sur	vey Sxn:	QCB Protocol Survey # 6 of	5 .
TIME (24-hour)	Tomp (F'):	Wind (avg/grax)	% CC	Sky	
Start 0900	1400	4-8(13)	7 7		- 7
1200	-40° F	4-11 (13	├─ <i>ॉ</i> ॅ ─ ├		— i
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	.li			<u>close patchy evergest</u> distrile shower	
Į.				ctour patchy evercasi (kuzie strower	!
i	1 :		———	clear patchy overcast thaudo shower	- $-$
End	· ·· —			deer patchy overcast drade shower	
	en soils milliops:	ridges, rock out <u>cre</u>		lay soils, old roads, various nectar sources	
Nymphalidae (Brushfoote	ad Butterflies)		Total	Hesperiidae (Skippers)	Total
Euphydryas editha (Quine		· · · . · · .			
Euphydryas chalcedona (ett pot)	 	Erynnis funeralis (Funereal Duskywing) Erynnis tristis (Sad Duskywing)	:
Thessalia leanira (Wright		ciatori		L	
Chlosyne californica (Cali			—-· —	Erynnis propertius (Propertius Duskywing)	
Chlosyne gabbii (Gabb's				Erynnis brizo (Sleepy Duskeywing)	÷ `
				Pyrgus albescens (Checkered Skipper)	<u>. </u>
Phyciodes mylitta (Mylitta				Hesperia juhia (Jubia Skipper)	
Junonia coenia (Commor	, ,			Polites sabuleti (Sandhill Skippeर)	ļ
Vanossa annabella (Wes			4.	Megathymidae (Giant Skippers)	
Vanessa atalanta (Red A				Megathymus yuccae (Yucca Giant Skipper)	<u> </u>
Vanessa cardui (Painted					<u>!</u>
Vanessa virginiensis (Virg				Other Butterflies:	į
Nymphalis californica (C					!
Danaidae (Milkweed Butte		<u> </u>			<u>:</u>
Danaus plexippus (Mona	-				
Danaus gilippus (Queen)	. .				<u> </u>
Satyridae (Satyrs)	<u> </u>		<u> </u>		!
Coenonympha californica					
Pieridae (Whites, Suiphur		<u>::</u>	<u> </u>		l
Pieris rapae (Cabbage W				-	
Pontia sisymbrii (Spring V]]
Pontia beckerii (Beker's V					
Pentia protodice (Commo					L !
Anthocharis sara (Sara C					
Anthocharis cethura (Feld	der's Orangetip)				
Euchloe hyantis (Desert I					
Colias eurytheme (Orang					
Colias harfordii (Harford's					
Nathalis iole (Dainty Sulp					
Papilionidae (Swallowtail				Notes: Warr	
Papilio polyxenes (Deser		ail)			
Papilio eurymedon (Pale					
Papilio rululus(Western T		l)			
Riodiniade (Metalmarks)		A11 1 - 122			<u> </u>
Apodemia mormo (Behr's					Î $\overline{}$
Lycaenidae (Hairstreaks :			·		
Celastrina ladon (Spring .				l	_ · _ i
Leptotes marina (Marine					
Brephidium exile (Wester] —	-
Glaucopsyche lygdamus		Sitvery blue)			
Hemiargus ceraunus (Ed				<u> </u>	
Icaria acmon (Acmon Blu				<u>) — </u>	
Philotes sonorensis (Son			— †** 🐃	<u> </u>	
Callophrys augustinus (B			— 	<u> </u>	├
Callophrys perplexa (Per		airstreak)	—·	†	
Strymon melinus (Gray H			— 	· · · · · · · · · · · · · · · · · · ·	
Atlides halesus (Great Pu			— † —	<u> </u>	
				 	† j

ential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) uctions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Cordylanthus rigidus = CR Plantago patagonica = PP

Antirrhinum saufa	THUS I PLANTS OF
Antirrhinum coulteri	anum = AC Collinsia concolor
Amsinckia menziesii	
Antirrhimum coulterian	Rancher's Fiddleneck
 Anlimhinum nuttallianum 	um Coulter's Spandragen
Asclepias fascicularis	Nullali's Snapdragon
A Boechera sp.	Narrow-leaf Milkweed
 Celandrinia ciliata 	Rock Cress
 Calochortus concolor 	Red Maids
 Calystegia tongines 	Golden-bowl Mariposa Lily
Cemissonia so.	Morning-glory Sun Cup
Castilleja exerta	
Caulanthus helerophytlus Caulanthus nimed.	San Diego Jewelflower
oculoning Simulane	Payson's Caulanthus
 Ceanothus cuneatus Ceanothus greggil 	Buck Brush
Ceanothus leucodermis	Cup-leaf-lilac
Chaenactis artemisiilolia	Chaparral Whitethorn
Chaonacils glabriuscula	White Pincushion
c Clematis sp.	Yellow Procushion
o Collinsia concolor	Clematis
 Cordylanthus rigidus 	Southern Chinese Houses
Coreopsis californica	Vark-tip Bird's Beak
_c Corethrogyne filaginifolia	California Coreopsis
Urypranma sp.	Common Sand-aster
c Cucurbita foetidissima	Cryptantha Calabazilia
Descurainia sp.	Tansy-mustard
Dicentra chrysentha Dichelostomas	Golden Ear-drops
Cantalogo Cantalum	Blue Dicks
, o Dudieya sp.	Dudleya
and the penciliars	Whispering Bells
Eriastrum sp.	Woolly-star
 Engeron foliosus 	Goldenbush
Enodictyon trichocalyx	Leafy Daisy
Enogonum fasciculatum	Hairy Yerba Santa
Enogonum sp.	inland California Buckwheat
K Eriophyllum sp.	buckwheat
Erodium cicutarium*	Golden-yarrow
 Erysismum capitatum 	Red-stern Storksbill
 Eschscholzía galifornica 	Western Waliflower
CUCNIPITA Chrysapthomilesia	California Poppy Spotted Hideseed
o ccidentatis	Western Goldenrod
> Garrya veatchii	Canyon Silk Tassel
Gilla sp. Gnanhalium	Gilla
O CONTRACTOR	Cudweed
merrid restophyth	California Mustard
- WILLIAM SHICKERS	Broom Matchweed
The state of the s	Salt Heliotrope
Hirshfeldia incena Lamium ampfexicoule	Short-pod Muslard
X Lasthenia gracilis	Henbit
Layia glandulosa	Common Goldfields
C Lepidium so	White Layla
Linanthus bellus	Pepperweed
 Linanthus dichotomus 	Desert Beauty
 Lonicera subspicata 	Evening Snow
 Malacothrix californica 	Johnston's Honeysuckle
 Malacothrix clevelenda 	California Dandelion
Marah macrocarpue	Cleveland's Malacothrix Wild-cucumber
 Marrubium vulgare* 	Horehound
Matricaria matricarioides*	Common Pineapple-weed
Mentzelia veatchiena Microsterin omaili	Veatch's Stick-leak
orograms Gracilla	Slender Phlox
Minutus sp. on his	Monkeyflower
Nemophila menzeisii Orobanche bulbose	Small-flower Baby Blue Eyes
	/

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Orobanche bulbosa

Osmadenia tenella Osmadenia Paconia celifornica California Peony Pectocarya sp. Pectocarya Phacella sp. **Phacelia** rPholistoma membranaceum White Fiesta Flows Plagiobothrys sp. Popcomitower. Plantago patagonica Desert Plantain Platystemon californicus Cream Cups Prunus ilicifolia Holly-leaf Charry Rafinasquia neomexicana Desert Chicory Ribes quarcelorum Oak Gooseberry Rompa nesturtium-aquaticum Water-cress Rose californica California Rose Saltugilia australis Southern Gilia Senecio californicus California Buttenweed Senecio flaccidus Butterweed Sidalcee malvaeflora Checker-bloom Sisymbrium sp. Tumble Mustard Solidago californica California Goldenrod Stachys ajugoides Hedge-nettle Stephanomeria sp. Wreathplant Streptanthus campestris Southern Jewelflower Stylocline gnaphalloides Everlasting Nest-straw Tetradymia comosa Cotton-thorn Thysanocarpus sp. Fringepod Trichostemma parishii Mountain Bluecurls Tropidocarpum gracile Stender Dobie-pod Uropappus tindləyi Silver Puffs Viola purpured Oak Yollow Violet Pensy mun clevelandi Mineyla

Rare Wildlife or Rare Plants:

mimulus aurantiacus aridus

MUMADIANE 01-03

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Linantes bollus MM LB 01 -02 (7) MMLB100 (6)

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Recorder: Sun Sagn HAdd'l Person:	Date: MAX X, GPS-Unit:
Project: Concentrix Solar Project Map #:Survey Sxn:	A QCB Protocol Survey # Sky C Cot 5
TIME (24-hour) Temp (F*): Wind (avg/max) % CC	Sky
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	cloapotchy ovorcest orizzlo shower
End Q SU	clear patchy overcas) drizzle shower
Habitat On-site (circle): open solls, hilltops, ridges, rock outcrops, soil crusts,	
Total	Total
Nymphalidae (Brushfooted Butterflies)	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)	Erynnis funeralis (Funereal Duskywing)
Euphydryas chalcodona (Henne's Checkerspol)	Erynnis Iristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)	Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)	Pyrgus albescens (Checkered Skipper)
Phyciodes mylitta (Mylitta Crescent)	Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye)	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (West Coast Lady) Vanessa alalanta (Red Admiral)	Megathymidae (Giant Skippers) Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	yanyinus yuccae (Tucca Giant Skipper)
Vanessa virginiensis (Virginia Lady)	Other Butterflies:
Nymphatis celifornica (California Tortoiseshell)	
Danaidae (Milkweed Butterfiles)	
Danaus plexippus (Monarch)	
Danaus gilippus (Queen)	T
Satyridae (Satyrs)	
Coenonympha californica (Common California Ringlet)	
Pieridae (Whites, Sulphurs)	· · · · · · · · · · · · · · · · · · ·
Pieris rapae (Cabbage White)	·
Pontia sisymbrii (Spring White) Pontia beckerii (Beker's White)	
Ponta Decken (Bekers vynte)	
Positio protection (Common Mistra)	
Pontia protodice (Common White) Aphrocharis sara (Sara Oregnatio) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
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gential Nectaring or Host Plants for Quino Checkerspot Butterfly In Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirchinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

Amsinckla menziesii Rancher's Fiddleneck Osmadenia tenella Osmađenia Antirrhimum coulterlanum Coulter's Snapdragon Paeonia californica California Peony Antimhinum nuttallianum Nultali's Snapdragon Peclocarya sp. Pectocarva Asclepias fascicularis Narrow-leaf Milkweed Phecelia sp.: Phacelia Boechera sp. Rock Crass Pholistoma membraneceum White Fiesta Flower Calandrinia ciliata Red Maids Plaglobothrys sp. Popcomflower Calochortus conceter Golden-bowl Mariposa Lily Plantago patagonica Desert Plantain Calystegia longipes Morning-glosy Platystemon californicus Cream Cups. Camissonia sp. Sun Cup Prunus ilicifolia Holly-leaf Cherry Castillela exerta Paintbrush ø Rafinesquia neomexicana Desert Chicory Caulanthus heterophyllus San Diego Jewelflower Ribes quercetorum Oak Goosebarry Caulanthus simulans Payson's Caulanthus Ronipa nesturtium-aquelicum Water-cress Coanolhus cuneatus Buck Brush Rosa californica California Rose Ceanothus greggii Cup-leaf-lilac Saltugilia australis Southern Gitia - ///hw Coanothus leucodermis Chaparral Whitethom Senecio californicus California Butterweed Chaenactis artemisiilolia White Pincushion Senecio fleccidus Butterweed ... Chaenactis glabriuscula Yellow Pincushion [] Sidalcea malvaeffore Checker-bloom Clemetis so. Clematis o Sisymbrium sp. . Tumble Mustard ... Collinsia concolor Southern Chinese Houses ø Sclidago californica California Goldenrod Cordylanthus rigidus Dark-tip Bird's Beak Stechysi ajugoides Hedge-nettle Coréopsis californica California Coreopsis Stephanomeria sp. Wreathplant Corethrogyne filaginifolia Common Sand-aster Streptanthus campestris Southern Jewelflower Cryptantha sp. Cryptantha: Stylocline gnaphalioides Everlasting Nest-straw Cucurbita foctidissima Calabazilla Totradymia comosa ..o Cotton-theirn Descurainia so. Tansy-mustard Thysanocarpus sp. Fringepod Dicentra chrysantha Golden Ear-drops Mountain Bluecuris 2(5 p Trichoslemma parišhii Dichelostemma capitatum Blue Dicks Tropidocarpum gracile Slender Dobie-pod Dudleya sp. Dudleya Uropappus IIndleyi Silver Puffs Emmenanthe pendulifera Whispering Bells Viola purpurea Oak Yellow Violet Eriastrum so. Woolly-star Encameria sp. Goldenbush Etigeron foliosus Leafy Daisy Other Flowering Plants: Eriodictyon trichocatyx and the 'Hairy Yerba Santa Eriogenum fasciculatum Inland California Buckwheat Eriogonum sp. Buckwheat Eriophyllum sp. Golden-yarrow Erodium cicutarium* --Red-stem Storksbill Erysismum capitatum Western Waltflower Eschscholzia californica California Poppy Eucrypta chrysanthomifolia Spotted Hideseed Euthamia occidentalis: Western Goldenrod Rare Wildlife or Rare Plants: Garrya veatchii Canyon Silk Tassel Gilia sp. Gilia Gnaphalium Cudweed Guillenia laslophylla California Mustard Gutierrezia sarothran **Broom Matchweed** Heliotropium curassevicum Salt Heliotrope Hirshfeldla incana Short-pod Mustard ō Lamium amplexicaule Henbit ... 0 Lasthenia gracilis Common Goldfields . 0 Layle glandulosa White Layia ... C Lepidium sp. Papperweed Linanthus bellus Desert Beauty Linanthus dichotomus Evening Snow Lonicera subspicata Johnston's Honeysuckie Malacothrix californica Catifornia Dandelion Malacothrix clevelandii Cleveland's Malacothrix Marah macrocarpus Wild-cucumber Merrubium vulgare* Horehound | Matricaria matricarioides! Common Pineapple-weed Montzelia veatchiana Veatch's Stick-leak Microsteris gracilis Slender Phiox Mimulus só. Monkeyflower Nemophila menzelsii

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Orobanche bulbosa

Recorder: Mayolic Project: Concentry Se	•	~		D	ate: <u>5.3.1</u>	<u>i</u>	GPS Unit :	. 7
Project: Concentrix So			rvey Sxn;	QCB Pr	otocol Survey#	1-		
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Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

*	Amsinckia menziesii	Rancher's Fiddleneck
0	Antirrhimum coulterianum	Coulter's Snapdragon
·a	Antirrhinum puttatlianum	Nultali's Snapdragon
O	Asciepias fascicularis	Narrow-leaf Milkweed
2	Boechera sp.	Rock Cress
9	Calandrinia ciliata	Red Maids
Ċ	Calochortus concolor	Golden-bowl Mariposa Lily
0	Calystegia longipes	Morning-glory
<b>&gt;</b>	Camissonia sp.	Sun Cup
٥	Castilieja exerta	Paintbrush
្ត	Caulanihus heterophyllus	San Diego Jewelflower
	Caulanthus simulans	Payson's Caulanthus
i o	Coanothus cuneatus	Buck Brush
×		Cup-leaf-filac
.0.	Ceanothus leucodermis	Chaparral Whitethorn
0	Chaenactis artemisiifolia	White Pincushion
×	Chaenactis glabnuscula	Yellow Pincushion
6	Clematis sp.	
6	Collinsia concolor	Clematic
0	Cordylanthus rigidus	Southern Chinese Houses
٥	Coreopsis californica	Dark-tip Bird's Beak
č		California Coreopsis
	Corelhrogyne filaginifolia	Common Sand-aster
*	Cryptantha sp.	Cryptantha
۰	Cucurbita foetidissima	Calabazilla
×		Tansy-mustard
. D	Dicentra chrysantha	Golden Ear-drops
×	Dichelostemma capitatum	Blue Dicks
٥	Oudkeya sp.	Dudleya
٥	Emmenanthe pendulifere	Whisparing Bells
0	Erlastrum sp.	Woolly-star
. 0	Ericameria sp.	Goldenbush
٥	Erigeron foliosus	Leafy Daisy
0	Enodictyon trichocalyx.	Halry Yerba Santa
٥.	Eriogonum fasciculatum	Inland California Buckwheat
ю.	Eriogonum sp.	Suckwheat
爻	Eriophyllum sp.	Golden-yarrow
	Erodium clcuterium*	Red-stem Storksbill
0	Erysismum capitatum	Western Wallflower
×		California Poppy
	Eucrypta chrysanthemifolia	Spotted Hideseed
.o.	Euthernia occidentalis	Western Goldenrod
0	Garrya voatchii	Canyon Silk Tassel
, a .	Gilia sp.	Gilia
Ü.	Gnaphalium	Cudweed
4	Guillenia lasiophylla	California Mustard
0	Gutierrezia sarothrae	Broom Matchweed
3)	Heliotropium curassavicum	Salt Hellotrope
×	Hirshfeldia incana	Short-pod Mustard
O.	Lamium əmpləxicaule	Henbit
*	Lasthenia gracilis	Common Goldfields
a.	Layia glandulosa	White Layla
್ಷ	Lop!dium sp.	Pepperweed
×	Linanthus bellus	Desert Seauty
0	Linanthus dicholomus	Evening Snow
ο.	Lonicera subspicaţa	Johnston's Honeysuckle
42	Melacothrix californica	California Dandelion
Φ:	Malacolhrix clovelandii	Cleveland's Malacothrix
٥	Marah macrocarpus	Wild-cucumber
0	Marrubium vulgare*	Horehound
ę.	Matricaria matricarioides*	Common Pineapple-weed
Ó	Mentzelio veatchiana	Veatch's Stick-leak
0	Microsteris gracilis	Siender Phiox
ē.	Mimulus sp.	Monkeyllower
۰.	Nemophila menzeisii	Small-flower Baby Blue Eyes
ο ΄	Orobanche hulhoea	Changeral Broom cana

Orobanche hulbosa

0	Osmadenie tenella	Osmađenia
o	Paeonia californica	California Peony
×	Pectocarya sp.	Pectocarya
×		Phacelia
c	Pholistoma membranaceum	White Fresta Flower
ď	Plagiobothrys sp.	Popcomflower
ŀ	Plantago patagonica	Desert Plantain
ì	Platystemon californicus	Cream Cups
)	Prunus ilicifolia	Holly-leaf Charry
	Rafinesquia neomexicana	Desert Chicory
1	Ribes quercetorum	Oak Gooseberry
>	Rorripa nasturtium-aquaticum	Water-cress
ŀ	Rosa californica	California Rose
, .	Saltugilia australis	Southern Gilia
•	Senecio californicus	California Bulterweed
٠.	Senecio flaccidus	* Sulterweed
	Sidalcea malvaettora	Checker-bloom
c	Sisymbrum sp.	Tumble Mustard
+	Solidago californica	California Goldenrod
:	Stachy's ejugoides	Hedge-hettle
•	Stephanomeria sp.	Wreathplant
	Streptaninus campestris	Southern Jewelflower
	Stylocline gnapholicides	Everlasting Nest-straw
	Tetradymia comosa	Cotton-thorn
ς.	Thysanocarpus sp.	Fringepod
	Trichostemma parishii	Mountain Bluecuris
	Tropidocarpum gracile	Stender Dobie-pod
~	Uropappus findleyl	Silver Püffs
	Viole purpures	Oak Yellow Violet
	· ·	

Other Flowering Plants:

..o .o .o

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. 9

Chaparral Broom-rape

Nogetalive Encelia action

Rare Wildlife or Rare Plants:

Recorder: Fromme Hendrickad Person:		
Project: Concentrix Solar Project Map #: 6 Survey Sx	n:(	QCB Protocol Survey # 6 of 5
TIME (24-hour) Temp (F1): Wind (avg/max) % C	æ	· Sky
Start 11:50 84.5 3.3/5.6 C	>7	
12:45 3.63 4.1163 6	; — † ·	A STATE OF THE STA
	<u>'—</u> [-	
+51.5577.6	<u>}</u>	
$-2:30 + 95.0 \cdot 1.2 \cdot /30 \cdot 2$	_	come matchy overces they's shower
<u> 3:30 94.5 3.175.2 0</u>	<u>'</u>	conar galichy overcasi drazde showor
		ciesus palichy overcoal dazela shower
End 4:00 94.0 4.2/6.9 C		cies celchy overcast dazzie shower
Habitat On-site (circle); open soils hilltops. idges, tock outcrops soil	crusts c	lay soils, old roads, various neclai sources  Total
Nymphalidae (Brushfooted Butterfiles)		Hesperiidae (Skippers)
Euphydryes editha (Quino Checkerspot)		Erynnis funcralis (Funereal Duskywing)
Euphydryas chalcedona (Henne's Checkerspot)		Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)		Erynnis propertius (Propertius Duskywing)
Chlosyne californica (Catifornia Patch)		Erynnis brizo (Sleepy Duskeywing)
Chiosyne gabbii (Gabb's Checkerspot)		Pyrgus alheicens (Checkered Skipper)
Phyciodes mylitte (Mylitta Crescent)		Hesperia jubia (Jubia Skipper)
Junonia coenia (Common Buckeye) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<del>-7</del>	Polites sabuleti (Sandhill Skipper)
Vanessa annabella (Wesl Coast Lady)		Megathyrnidae (Glant Skippers)
Vanessa atalanta (Red Admiral)		Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)		
Vanessa virginiensis (Virginia Lady)		Other Butterflies:
Nymphatis californica (California Tortoiseshell)		
Danaidae (Milkweed Butterfiles)		
Danaus plexippus (Monarch)		
Danaus gilippus (Queen) .		
Satyridae (Satyrs)		
Coenonympha californica (Common California Ringlet)		· · · · · · · · · · · · · · · · · · ·
Pleridae (Whites, Sulphurs)		
Pieris rapae (Cabbage White)		·
Pontia sisymbrii (Spring White)  Pontia beckerii (Beker's White)		
Pontia protedice (Common White) [/]	3	······································
Anthocharis sara (Sara Orangetip)	<u></u>	<del> </del>
Anthocharis cethura (Felder's Orangetip)	-	<u> </u>
Euchloe hyantis (Desert Pearly Marble)		···
Colias eurytheme (Orange Sulphur)	<u> </u>	<u> </u>
Colias harfordii (Harford's Sulphur)	10	· · · · · · · · · · · · · · · · · · ·
Nathalis iole (Dainty Sulphur)	, -	<del></del>
Papilionidae (Swallowtalls)		Notes:
Papilio polyxenes (Desert Black Swallowtail)		· · · · · · · · · · · · · · · · · · ·
Papilio eurymedon (Pale swallowtail)	· [ _	<del> </del>
Papilio rutulus(Western Tiger Swallowtail)	- •	
Riodiniade (Metalmarks)		
Apodemia mormo (Behr's Metalmark) V [1]	]Z	· · · · · · · · · · · · · · · · · · ·
Lycaenidae (Hairstreaks and Blues)		
Celastrina ladon (Spring Azure)		
Leptoles marina (Marine Blue)		
Brephidium exile (Western Pygmy Blue )	_	
Glaucopsyche lygdamus (Southern Blue/Silvety blue)		
Hemiargus ceraunus (Edward's Blue)	· . <del>_</del>	
icaria acmon (Acmon Blue)	3_	
Philotes sonorensis (Sonoran Blue)	<u> </u>	<u> </u>
Cellophrys augustinus (Brown Elfin)		<u> </u>
Callophrys perplexa (Perplexing Green Hairstreak)		<u> </u>
Strymon melinus (Gray Hairstreak)		
Allides halesus (Great Purple Hairstreak)		<u> </u>

ntial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar) Jons,

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

## PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum caulterianum = ACCollinsia concolor =	CC Cordylanthus rigidus = CR Plantago patagonica = PP
c Amsinckia menziesii Rancher's Fiddlespel	
The state of the s	o Osmadenia tencita Osmadenia
	1
n new and a contract of the co	
Valuation to a material and the second s	n Phanetta
	hadeig
- 104 104102	
Water the second	- Franciscus III
Control of the contro	
A	
- Wilder Midd	Comortia rose
· Trispersi tridelligili	. Counter Otto
A CALL THOUGHT	Company of the contract of the
A Property of the second of th	Difference Property and Comments of the Commen
Cidilatis	5 Tecker-pidom
- A	WINDLE MOSIZIO
Dark-tip Bird's Beak	California Goldenrod
California Coreopsis	reage-nettle
Common Sand-aster	Wreathplant
Cryptantha sp. Cryptantha	Southern Jewelflower
Calabazilla Calabazilla	Evertasting Nest-straw
lansy-mustard	Cotton-thorn
Obligation Colden Ear-drops	Fringepod
Vicnelostemma capitatum Rhis Dieta	o Trichoslemma perishii Mountain Bluecurls
Dudleya sp.     Dudleya	" Popidocarpum gracile Stender Dobin and
Chimenanthe pendulifera Whitenana Pella	Silver Duffe
Crissium sp. Mooth, stor	Oak Yellow Violet
17. Encamena sp. Goldenburk	
Engeron foliosus	
Effodicityon frichocalty: Halor Verba Conta	Other Flowering Plants:
Energonum tasciculatum (pland Colifornia Protection)	
Buckwheel	
• Enophyllum sp. Golden unstand	
Croolum oculerium* Redistan Status ill	
Crysismum capitalum Meetern Moldleweet	
Colifornia Denni	
EUCYPTA CRIVSanthemifolia Seetled Little	e
Cumamia occidentalis Western Goldenrod	
Canya Vegicon	Rare Wildlife or Rare Plants:
U Gilla	
Gnaphalium	0
Guillenia lasiophylia California Muntant	
Guileirezia sarothirae Roppie Matabuse d	0
nellotropium curassavicum Salt Helintrope	
Hirshfeldie incane     Short-and Mustard	ά
y Lamium ampiexicaule Hanhit	
Lasthenia gracilis Common Goldfielde	•
C Layis glanduloso White I avie	
Contain sp. Pennenwood	
O Linanthus bellus Deset Begutu	
Linanthus dichotomus     Evening Space	C
Lonicera subspicata Johnston's Hopping Lie	
Malecothrix celifornics California Dandelion	
Malecollunx clevelandii Cleveland'e Malecollunx clevelandii	
Marah macrocarpus Wild-cucumber	
Marrubium vulgare* Horebound	
Matricaria matricarioides* Common Pineapple-weed	
Mentzelia veatchiona Vooletia Dist	

Small-flower Baby Blue Eyes

Vealch's Slick-leak

Chaparral Broom-rape

Stender Phlox

Monkeyflower

Mentzelia veatchiona

Nemophila monzeisii

Orobanche bulbosa

Microsteris gracilis

Mimulus sp.

## ${\bf Quino\ Checkerspot\ Butterfly\ Protocol\ Survey -- Field\ Data\ Sheet}$

Recorder; KH. C	)slove	_Add'l Pers	зоп:	ß_	Date:	4/26/2011	GPS Unit :	10
Project: Concentrix S	olar Project_M	ap #:	Survey S	xn:	QCB Protocol	Survey#	of	5
TIME (24-hour)	Temp (F*):	Wind Javanna	<u> </u>	.cc		Sky		
Start 935	64	3/5		ත	Gies: 3-91	thy overeast do	<u>vzza</u> shower	
1048	Z2	4/7		<b>⋽</b> Т			ızz' <del>e</del> shower	
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<del>,</del>		<del>7°</del> .	— –	_	ctaarpal	<del>czny ovorcast</del> di	czie <u>shower</u>	
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<i>/ 4</i> %	7!	2/5		<u>ت ل</u>		chy ovojegaja de	ez <u>če</u> showor	
					c'ear pal	chy overessi da	ızzla showar	
End 2/0	72	3.1/5		<u> </u>			ezza showo:	
Habitat On-site (circle): op					ay soils, old roads, vario			<i>*</i>
Nymphalidae (Brushfoot	art Buttarfilaet	Map 3	Mep.	<u>८ Total</u>	Hesperiidae (Skippers	jide.	p. 3	<u>и 6 Та</u>
Euphydryes editha (Quir			<del>! · · ·</del>	-	Erynnis funeralis (Fu		·	
Euphydryas chalcedona		mnot)	( <u> </u>	-			<del></del>	-
Thesselia leenira (Wright		:		<del> </del>	Erynnis tristis (Sad D			
		ļ		╀ -	Erynnis propertius (P		'	
Chlosyne californica (Ca		]		1	Erynnis brizo (Sleepy	Duskeywing)		
Chlosyne gabbii (Gabb's			<u> </u>	<del>                                     </del>	Pyrgus albescens (C	heckered Skipper)		ļ
Phyciodes mylitta (Mylitt			ļ.,	<del></del>	Hesperia jubija (Jubija		!	2
Junonia coenia (Commo	n Buckeye)	////	_///	9/3	Polites sabuleti (Sand		ı	. <u>!</u>
Vanessa annabella (Wes					Megathymidae (Giant		- !	:
Vanessa atalanta (Red A		_ <u>_ 1</u>			Megathymus yuccac	(Yucca Giant Skippe	ar) !	
Vanessa cardui (Painted			·					<u>.</u>
Vanessa virginiensis (Vu			L		Other Butterflies:			
Nymphalis californica (C		shell)	ļ		- Rlebeins la	mini 1	1	1
Danaldae (Milkweed Butt					_ Klahejus luj Philosopa s	atallus 111		3
Danaus plexippus (Mona				I	<u>-</u>	. ,	<b></b>	···
Danaus gilippus (Queen)	) '			T				1
Satyridae (Satyrs)					Hother.			
Coenonympha californic	a (Common Catifo	ımıa Ringlet)						[
Pieridae (Whites, Sulphu	ırs)				Karliosoma +	alva II		7
Pieris rapae (Cabbage V	Vhile)				Stylograda	Ephalica II	,	2
Pontia sisymbrii (Spring	White)		<u> </u>	† —	Stylopoda o	**************************************		٠,
Pontia beckerii (Beker's			<del></del>	†	. <u>308/11/24</u> 44	Treate   7'st C M	<b>"</b> —}	<del></del>
Pontiu protodice (Comm-				4-	-		<del></del>	1
Anthocharis sara (Sara C	.,,,,,		i –	<b>+</b> •			<del>-  </del> -	
Anthocharis cethura (Fet			Į · · · · · · ·				<del>-                                    </del>	
Euchloe hyantis (Dasert			† —	_	<del></del>		·- <del> </del>	-
Colias eurytheme (Orang			,-	2	<del></del> -		+	— <b> </b>
Colias harfordii (Harfordi			<del>├</del> ′	<b>├</b> ─ '-		<del></del>	<u> </u>	-
			<del> </del>	·	-			+
<u> </u>	priur)		₩	-} — :		<del></del>	· J	-
Nathalis iole (Dainty Sulp					Modern			•
Nathalis iole (Dainty Sulp Papillonidae (Swallowtai	ls)		<del>\</del>	<del>                                      </del>	Notes:	. <b> </b>		-
Nathelis iole (Dainty Sulp Papilionidae (Swallowtai Papilio polyxenes (Dese	ts) rt Black Swaltowta	eif)	<u> </u>		· · <u> </u>	·	-	ļ
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Nathalis iole (Dainty Sulp Papilionidae (Swaltowtai Papilio polyxenes (Deser Papilio eurymedon (Pate Papilio rutulus(Western Riodiniade (Metaimarks) Apodemia mermo (Behr' Lycaentdae (Hairstreaks Celastrina ladon (Spring Leplotes marina (Marine Brophidium exile (Weste Glaucopsyche lygdamus Hemiargus ceraunus (Edicaria acmon (Acmon Bio Philotes sonorensis (Sor	ts)  rt Black Swaltowfar e swallowfail)  Figer Swallowfail)  s Metalmark)  and Blues)  Azure)  Blue)  rn Pygmy Blue)  (Southern Blue/Stward's Blue)  ue)  //// noran Blue)	( Voreno 4		50/20 4/3	Last 6	and a form	- S	
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## __ntial Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum caulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterianum =	= AC <u>Collinsia concolor</u> = CC	Cord
<del></del>	Amsinckia menziesii	Rancher's Fiddleneck	
0	Antirchimum coultorianum	Coulter's Snapdragon	
. 0	Antirminum nuttallianum	Nultali's Snapdragon	
0	Asclepias fascicularis	Narrow-teaf Milkweed	-
o	Boechera sp.	Rock Cress	
0	Calandrinia ciliata	Red Maids	
0	Galochortus concolor		- 1
ő	Culystegia tongipes	Golden-bowl Mariposa Lily	-
0		Moming-glory	- 1
3	Camissonia sp. Castilleja exerta	Sun Cup	
0		Paintbrush	
0	Caulanthus heterophyllus Caulanthus simulans	San Diego Jewelflower	
Ö		Payson's Cautanihus	İ
	Connothus cuneatus	Buck Brush	
V	Ceanothus graggii a. 3, (	Cup-leaf-lilac	1
0	Ceanothus leucodermis	Chaparral Whitethorn	- 1
	Chaenactis artemisiifolia	White Pincushion	- 1
٥	Chaenactis glabriuscula	Yellow Pincushion	- 1
0	Clematis sp.	Clematis	ļ
0	Collinsia concolor	Southern Chinese Houses	F
0	Cordylanthus rigidus	Dark-tip Bird's Beak	
ö	Coreopsis californica	California Coreopsis	1
D	Corethrogyne filaginifolia	Common Sand-aster	Ì
	Cryptantha sp	Cryptantha	
0	Cucurbita foetidissima	Calabazitla	
0	Descurainia sp.	Tansy-mustard	
o	Dicentra chrysantha	Golden Ear-drops	- 1
o :		Blue Dicks	
ń	Dudleya sp.	Dudleya	
0	Emmenanthe pendulifers	Whispering Belts	
D	Eriastrum sp.	Woolly-star	- 1
~	Encamena sp 3, 6	Goldenbush	- 1
0	Erigeron foliosus	Leafy Daisy	-   -
0	Eriodictyon trichocalyx	Hairy Yerba Santa	-
О	Eriogonum fasciculatum	Inland California Buckwheat	1
0	Eriogonum sp.	Buckwheat	]
D	Eriophyllum sp.	Golden-yarrow	1.
0	Erodium cicutarium*	Red-stem Storksbill	
ō	Erysismum capitatum	Western Wallflower	
o	Eschscholzia californica	California Poppy	- I -
C	Eucrypta chrysanthemifolia	Spotted Hideseed	
٥.	Euthamia occidentalis	Western Goldenrod	1 .
O	Garrya veatchii	Canyon Silk Tassel	.
o.	Gilia sp.	Gilia	
c	Gnaphalium	Cuoweed	1
ം	Guillenia lasiophylla	California Mustard	-
0	Gutierrozia sarolhrae	Broom Malchweed	
n	Heliotropium curassavicum	Salt Heliotrope	
0	Hirshfeldia incana	Short-pod Mustard	-
o	Lamium amplexicaulo	Henbit	
-	Lasthenia gracilis 3, 6	Common Goldfields	Ī
ري	of animal adaptation of the contract of the co	White Layia	1 .
0	Lepidium sp.	Pepperwand	1
	Linanthus bellus	Desert Beauty	
0	Linanthus dichotomus		
٥.	Lonicera subspicate	Evening Snow	Ι.
n	Malacothrix californica	Johnston's Honeysuckle	
	Malacothrix clevelandii	California Dandelion	1
0.		Cleveland's Malacothrix	
0	Marah macrocarpus	Wild-cucumber	1
0	Mərrubium vulgara*	Herehound	
0	Matricaria matricarioides*	Common Pineapple-weed	
0	Mentzelia vealchiuna	Veatch's Stick-leak	1
0	Microsteris gracilis	Slender Phlox	1
υ.	Mimulus sp.	MonkeyRower	
o	Nemophila monzeisii	Small-flower Baby Blue Eyes	
_	Orohonoho kulhana	Oleman and the second s	

Chaparral Broom-rape

Orobanche bulbosa

	Paeonia californica Pactocarya sp. Phacelia sp. Pholistoma membranaceum Plagiobothrys sp. Plantago patagonica Platystemon californicus Prunus ilicifolia Refinesquia neomexicana	California Peony Pectocarya Phacelia White Fiesta Flower Popcomflower Desert Plantain Cream Cups Holly-leat Cherry
	Phacelia sp. 3 Pholistoma membranaceum Plagiobothrys sp. Plantago patagonica Platystemon californicus Prunus ilicifolia Refinesquia neomexicana	Pectocarya Phacelia White Fiesta Flower Popcomflower Desert Plantain Cream Cups
	Pholistoma membranaceum Plagiobothrys sp. Plantago patagonica Plalystemon californicus Prunus ilicifolia Refinesquia neomexicana	White Fiesta Flower Popcomflower Desert Plantain Cream Cups
	Pholistoma membranaceum Plagiobothrys sp. Plantago patagonica Plalystemon californicus Prunus ilicifolia Refinesquia neomexicana	Popcomflower Desert Plantain Cream Cups
	Plantago patagonica Plalystemon californicus Prunus ilicifolia Refinesquia neomexicana	Desert Plantain Cream Cups
	Platystemon californicus Prunus ilicifolia Refinesquia neomexicana	Cream Cups
	Prunus ilicifolia Rafinasquia naomexicana	Cream Cups
	Refinesquia neomexicana	Holly-leaf Cherry
. 1		
		Desert Chicory
; ;	Ribes quercetorum	Oak Gooseberry
;	Romipa nastudium-aquaticum	Water-cress
;	Rosa californica	California Rose
	Saltugilia australis	Southern Gilia
	Senecio californicus	California Butterweed
	Senecio fleccidus	Bullerweed
•	Sidalcea malyaeflore	Checker-bloom
٠.	Sisymbrium sp.	Tomble Mustard
	Solidago californica	California Goldenrod
	Stachys ajugoides	Hedge-nettle
	Stephanomeria sp.	Wreatholant
;	Streptanthus campestris	Southern Jewelflower
	Styloclino gnaphalioides	Everlasting Nest-straw
-	Totradymia comosa	Cotton-thorn
	Thysanocerpus sp.	Fringepod
: 7	Trichostemma parishii	Mountain Bluecurts
	Tropidocarpum gracile	Stander Dobie-pod
	Uropappus lindleyl	Silver Puffs
	Viola purpurea	Oak Yellow Violet
	All I in the second	3, 6

Other Flowering Plants:

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Rare Wildlife or Rare Plants:

Recorder Mine Courrer Add'l Person: Date: ARRIV. 2011 GPS Unit: Project: Concentrix Solar Project : Map #: T Survey Sxo: QCB Protocol Survey # TIME (24-hour) Wind (avg/max) Temp (F1): 70°F Ø Ø->4 MOH Start 0830HQS clear ceachy Crizzie overcse) shower <del>7</del>ል∘ጉ Ø-> 4 MPH Ø clear oalchy Overcasi CF ZZIO shower *Ø*→ ५ጡ೫ Ø 73°F 1000 HRS clear DBICHY cvercast **Grizzle** shower US-> 5mon 7.3°F <u>11 60 HRS</u> clear Overcasi drzzie shower 77°F 1->7 mily 1200 HRS clear overcasi dnizzdo 76°€ ጸ→8 M≀⊩ 1300 HRS drizzto 7408 KGM O & S 1400 HRS Habitat On-site (circle): open soils, hilitops, ridges, rock outcrops, soil crosts, clay soils, old roads, various nectar sources Total Nymphalidae (Brushfooted Butterflies) Hesperiidae (Skippers) Euphydryas editha (Quino Checkerspot) Erynnis funeralis (Funereal Duskywing) Euphydryas chalcedona (Henne's Chackerspot) Erynnis tristis (Sad Duskywing) Thessalia leanira (Wright's Checkerspot) Erynnis propertius (Propertius Duskywing) Chlosyne californica (California Patch) Erynnis brizo (Sleepy Duskeywing) Chiosyne gabbii (Gabb's Checkerspot) Pyrgus albescens (Checkered Skipper) 1 Phyciodes mylitta (Mylitta Crescent) Hesperia jub a (Jub a Skipper) Junonia coenia (Common Buckeye) 17 Polites sabuleti (Sandhill Skipper) ഗഎ Vanessa annabella (West Coast Lady) Megathymidae (Giant Skippers) Vanessa atalante (Red Admiral) Megethymus yuccae (Yucca Giant Skipper) Vanessa cardui (Painted Lady) Other Butterflies: Vanessa virginiensis (Virginia Lady) Nymphalis californica (California Tortoiseanell) PHOLISORA CATULUS (Common Scort/wine) Denaidae (Milkweed Butterfiles) 1 WHITE CHECKERED SKIPPERS Denaus plexippus (Monarch) Danaus gilippus (Queen) Satyridae (Satyre) Coenonympha celifornica (Common California Ringlet) Pieridae (Whites, Sulphurs) Pieris rapae (Cabbage White) Pontia sisymbni (Spring White) Pontia beckeril (Beker's White) Pontia protodice (Common White) ε, Anthocharis sara (Sara Orangetip) Anthocharis celhure (Felder's Orangetip) Euchice hyentis (Desert Pearly Marble) 1 Colles eurytheme (Orange Sulphur) 3 Colias harfordii (Harford's Sulphur) Nathalis iole (Damty Sulphur) Papilionidae (Swallowtalls) Notes: Pepillo polyxenes (Desert Black Swallowtail) ENO 1500 HRS, 73° F. WIND: 2-5 5 MPH. CIEAR Papilio eurymedon (Pale swallowtail) Papilio rutulus(Western Tiger Swallowtail) Riodiniade (Metalmarks) Apodemia mormo (Behr's Metalmark) 103 Lycaenidae (Hairstreaks and Blues) Celastrina tadon (Spring Azure) Leptoles marina (Marine Blue) Brephidium exile (Western Pygmy Blue ) 1 Glaucopsyche lygdamus (Southern Blue/Silvery blue) Hemiergus ceraunus (Edward's Blue) Icaria acmon (Acmon Blue) 12 Philotes sonorensis (Sonoran Blue) Callophrys augustinus (Brown Effin) Callophrys perplexa (Perplexing Green Halrstreak) Strymon melinus (Gray Hairstreak) Attides halesus (Great Purple Hairstreak)

Instructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC, Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterianum =	AC Collinsia concolor = CC
_	Amsinckia menziesil	Rancher's Fiddleneck
0		
0		Coulter's Snapdragon Nuttali's Snapdragon
		Narrow-leaf Milkweed
۰		Rock Cress
0		•
		Red Maids
Ф	********** ~ ****** * * * * * * * * *	Golden-bowl Manposa Lily
.0		Morning-glory
٥	Camissonia sp. 5 whi william	Sun Cup Paintbrush (Indian) San Diagna (Supplication)
O	Castilleja querto	*Paintbrush (Indian)
٥	odinguniae natorobithies	Cau picho senditivadi
0		Payson's Caulaninus
٥	+	Buck Brush
٥	***************************************	Cup-leaf-filac
٥		Chaparral Whitethorn
Đ		White Pincushion
o		Yellow Pincushion
С	Clemetis sp.	Clematis
٥		Southern Chinese Houses
0		Dark-tip Bird's Beak
ø	<u> </u>	California Coreopels
Đ	· <u></u> · _ · · · · ·	Common Sand-aster
O	(Cryptanthe sp.)	Cryptantha
.0		Calabazilla
0		Tansy-mustard
٥		Golden Ear-drops
o	,	Blue Dicks
0	Dudleya sp.	Dudleya
D	Emmananthe penduifiera	Whispering Bells
0	Enestrum sp.	Woolly-star
Đ		Goldenbush
.0	Engeron foliosus Enjodictyon trichocatyx	Leafy Daisy Hairy Yerba Santa
٥	Erlogonum fasciculatum	Inland California Buckwheat
0	Eriogonum sp.	Buckwheat
c	(Enophyllum sp.)	Golden-yarrow
ö	Erodium cicutenum*	Red-slem Storksbill
٥	Erysismum capitatum	Western Waliflower
o.	Eschschotzia californica	California Poppy
ò	Eucrypta chrysanthemilolia	Spotted Hideseed
o	Euthamia occidentalis	Weslem Goldenrod
٥	Garrya veatchii	Canyon Silk Tassel
ō		Gilia
o	Gnaphallum	Cudweed
0	Guillenia tasiophylla	California Musterd
o	Gulierrezia sarothrae	Broom Matchweed
0	Heliotropium curassavicum	Salt Heliotropa
0	Hirshfeldia incana	Short-pod Mustard
0	Lamium amplexicaule	Henbit
0.	Lasthenia oracilis	Common Goldfields
0	C Layla glandulosa)	White Layia
٥	Lepidium sp.	Pepperweed
٥	Linanthus belius	Desert Beauty
٥.	Linanthus dichotomus	Evening Spow
0	Lonicera subspicate	Johnston's Honeysuckte
٥	(Malacothrix californica)	California Dandelion
σ	Malacothrix clevelandii	Cleveland's Malacothiax
Đ	Marah macrocarpus	Wild-cucumber
Đ	Memubium vulgare*	Horehound
٠.	Matricaria matricarioides*	Common Pineapple-weed
0	Mentzelia veatchiana	Veatch's Stick-leak
o	Microsteris gracilis	Slender Phlox
O	Mimulus sp.	Monkeyflower
0	Nemophila menzeisii	Small-flower Baby Siue Eyes
o	Orobanche bulbosa	Спаратта! Втоотп-гара

•	•	
_		
٥.	Osmadenia tenella	Osmadenia
Ò	Paeonia californica	California Peony
O	Pectocarya sp.	Pectocarya
Ф	Phacella sp.	Phacelia
0	Pholistome membranaceum	White Fiesta Flower
٥	Plagiobothrys sp.	Popcomflower
Φ	Plantago patagonica	Desert Plantain
Ð	Platystemon californicus	Cream Cups
Đ	Prunus ilicifolia	Holly-leaf Cherry
à	Refinesquia neomexicana	Desert Chicary
٥	Ribes quercetorum	Oak Gooseberry
o	Rompa nasturtium-aquaticum	Water-cress
0	Rosa californica	California Rose
0	Sallugilia australis	Southern Gilia
o	Senecio californicus	California Butterweed
o	Senecio flaccidus	Butterweed
O	Sidalcea malvaeflora	Checker-bloom
o.	Sisymbrium sp:	Tumble Mustard
٥	Solidago celifornica	California Goldenrod
φ.	Stachys ajugoides	Hedge-nettle
0	Stephenomeria sp.	Wreathplant
0	Streptanthus campestris	Southern Jewelflower
C	Stylocline gnaphalioides	Everlasting Nest-straw
0	Tetradymia comose	Cotton-thorn
٥	Thysanocarpus ap.	Fringepod
o	Trichostemma parishii	Mountain Bluecuris
0	Tropidocarpum gracile	Stender Dobia-pod
	Uropappus lindleyi	Silver Puffs
o	Viola purpurea	Oak Yellow Violet
٥	r Africantes de de	
o		
Q.	Other Flowering Plants:	144510 1150
0	RHUS OVATA	SUGHR BUSI
0,		
0	(AiA)	

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EI WWDMY MCWW 14 MCWW 15

MC WW 16

MC WW 17 MEWN 18

	Rare	Wildlife	or Rare	Plants:
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1	Rare Wildlife or Rare	Plants:
3	mcia of	HORNED LARK
٠.	WC B201	BLACK TAKEO JACKPABBI
>	. Mc 3 MORTARH	OLES 3 MORTAR HOLES
ŀ.	TWE I NORTHEN	MORTAR HOLES
•	Mcwwo1	CORSTAL WESTERN WHIPTA
1	Wc mmo⊅	
1	MCWWOB	MCWWI9
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١.	MC WW 05	Mc ww al
•	mennoo.	Wcmm 99"
٠	MCWWO7.	mcwwa3
+	Mcww08	Mcww 84
	mcwwog	Mcmm 92
	MC MM 10	ഗ്രധധാന
1	mc ww !!	mcww at
	MCWWIN	Mc ww & &

1110	14. le Cuk	Con. //	<i>_</i>
Recorder: KHOshut M Add'l Person:	$\mathcal{Q}$	Date: 4/18/2011 GPS Unit:	66
	<del></del>		-
Project: Concentrix Solar Project Map #: 3 Sur	vey Sxn:	7 QCB Protocol Survey # of	5
1 <del></del>			
Star 7 00 68 2.5 C.A.	Y Y C 12	clear parein A whereast trizzio shower	
		clear puscity overcost dizzlo shower	
1252 67 5/12	25	4.20_	
- 122 - 1-3/12	<del></del>	cless distriby Grecose Grizzia shower	- 1
	· —	ologr patchy overcast driveln shower	
		clear publicy ownread drizzle stower	
End 2 00 69 10/19	3		
	30	cleur patchy <b>despisa drizzlo</b> strawe	
Habitat On-site (circle): open soits, hiftops, ridges, rock outcre	ops, soil <u>crus</u> is, c	day soils, old roads, various nectar sources	
	Total		Total
Nymphalidae (Brushfooted Butterflies)		Hesperiidae (Skippers)	l.——.
Euphydryas editha (Quino Checkerspot)	" -	Erynnis funeralis (Funereal Duskywing)	<u> </u>
Euphydryas chalcedona (Henne's Checkerspol)	_	Erynnis tristis (Sad Duskywing)	
Thossalia leanira (Wright's Checkerspot)	_	Erynnis propertius (Propertius Duskywing)	
Chlosyne celifornica (California Patch)	- +	Erynnis brizo (Steepy Duskeywing)	: T
Chlosyne gahhii (Gabb's Checkerspot)	— I.——		<u> </u>
Phyciodes mylitta (Mylitta Crescent)	!	Pyrgus albescens (Checkered Skipper)	
		Hesperia jub/a (Jub/a Skippeт) //	2
Junonia coenia (Common Buckeye) 4447		Polites sabuleti (Sandhill Skipper) 🗙 🗶	20
Vanessa annabella (West Coast Lady)		Megathymidae (Giant Skippers)	
Vanessa alalanta (Red Admiral)		Megathymus yuccee (Yucca Giant Skipper)	
Vanessa cardui (Painted Lady)			-
Vanessa virginiensis (Virginia Lady)	_	Other Butterfiles:	
Nymphalis californica (California Tortoiseshell)	<u> </u>	(Milles)	t l
Danaidae (Milkweed Butterflies)	<del>.                                      </del>	<del>                                     </del>	,
Danaus plexippus (Monarch)	<del></del>	. Kodissama fulva	⊢′_
Danaus gilippus (Queen)	-	Hali this belladona	<u> 2</u>
Satyridae (Satyrs)	·····		l
	_ +		
Coenonympha californica (Common California Ringlet)		<u> </u>	! _!
Pieridae (Whites, Sulphurs)	· .		<u>·                                     </u>
Pieris rapae (Cabbage White)			
Pontia sisymbrii (Spring White)			r 1
Pontia beckerii (Beker's White)	-	[	<u> </u>
Pontia protodice (Common White)	_   _/	<del> </del>	
Anthocharis sore (Sara Orangetip)	- <del>                                    </del>	<del></del>	$\vdash$
Anthocharis cethura (Felder's Orangetip)	— †- <del></del>	······································	
Euchice hyantis (Desert Pearly Marble)	—-i	·	1 1
Colias eurytheme (Orange Sulphur) /	— I .	· — — — — — — — — — — — — — — — — — — —	ļ .—
			<u>↓</u> ↓
Colias harfordii (Harford's Sulphur) /			L
Nathelis ide (Cainty Sulphur)			<u> </u>
Papilionidae (Swallowtails)	<u>.</u>	Notes:	
Papilio polyxenes (Desert Black Swallowfail)	L	The sold, for to overcast @ 540-@	ana 1
Papilio eurymedon (Pate swallowtail)			
Papilio rululus(Western Tiger Swallowtail)		Bar 2 0 1/ 1/ 1	
Riodiniade (Metalmarks)		Bagon acon ? DILAM	i
Apodemia momio (Behr's Metalmaik) LHT7/		Colles , washing	$\vdash \vdash \vdash$
Lycaenidae (Hairstreaks and Blues)	<del></del>   <del></del> -	T	11:-
Colastrina ladon (Spring Azure)	·	Good conditions w/ many batter	1 100
Leptotes marina (Marine Blue)	<del></del>	1.5 to my + 1. 3 to my - 1. 3 t	⊢ ⊣
	-	Fuding early chus to meather	
Brephidium exite (Western Pygmy Blue )	<b>—</b> — -	·····-	
Glaucopsyche lygdamus (Southern Blue/Silvery blue)		<u> </u>	1
Hemiargus ceraunus (Edward's Blue)	l	<u> </u>	[
Icana acmon (Acmon Blue)		T —— · · · · · · · · · · · · · · · · · ·	I
Philates sonorensis (Sonoran Blue)	.— — -	[ · — — · — · — ·	
Callophrys augustinus (Brown Etfin)	<del></del>	<u> </u>	·
Callophrys perplexa (Perplexing Green Hairstreak)	— <del> </del>	<del> </del>	$\vdash \vdash \vdash$
Strymon melinus (Gray Hairstreak)	<del></del>	i— —— — — —	
Attides halesus (Great Purple Hairstreak)		<del> </del>	ļ
- Annua Marana (Annua Canada)		<u> </u>	<u> </u>
1		1	. 1

### aal Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsio concolor = CC Cordylanthus rigidus = CR Plantago patagonico = PP

0	Amsinckia menziesli .	Rancher's Ftddleneck	o Osmadenia tenella Osmadenia
a	Antirrhimum coulterlanum	Coulter's Snapdragon	Paeonia californica California Peony
ο.	Antirchinum nuttallianum	Nultall's Snapdragon	1
0	Asclepias fascicularis	Narrov-teaf Milkweed	Pectocarya sp. Pectocarya
. 0	Boechera sp.	Rock Cress	o Phacelia sp. Phacelia
	-	· ·	<ul> <li>Pholistoma membranaceum White Flesta Flower</li> </ul>
G	Calandrinia ciliala	Red Maids	Plagiobothrys sp. Popcornflower
. •	Calochortus conoplor	Golden-bowl Manposa Lily	o Plantago patagonica Desert Plantain
٥	Celystegia longipes	Morning-glory	Platysterion celifornicus
o.	Camissonia sp.	Sun Cup	Pronos Ilicitolia Holly-leaf Cherry
a	Castilleja exerta	Paintbrush	
0	Ceulanthus heterophyllus	San Diego Jewelflower	o Refinesquia neomexicana Desert Chicory
			Ribos quercetorum
E)	Caulanthus simulans	Payson's Caulanthus	Rompa nasturtium-aquaticum Water-cress
O	.Ceanothus cuneatus	Buck Brush	n Rosa californica California Rose
O	Ceanothus greggil	Cup-teaf-lilac	o Sallugilia australis Southern Glia
0.1	Ceanothus leucodermis	Chaparral Whitethorn	Senecio californicus     California Butterweed
0	Chaenactis artemisiifolia	White Pincushion	
. 0	Chaenactis glabriuscula	Yellow Pincushion	o Senecio flaccidus Bulterweed
			<ul> <li>Sidalcea maivaetiora Checker-bloom</li> </ul>
. c	Clematis sp.	Clematis	Sisymbrium sp. Tumble Mustard
0	Collinsia concolor	Southern Chinese Houses	Solidago californica
0	Cordylanthus rigidus	Dark-tip Bird's Beak	o Stachys ajugoides Hedge-nettie
Ġ.	Coreopsis californica	California Coreopsis	
0	Corethrogyne fileginifolia	Common Sand-aster	
	Cryplantha sp.		o Streptanthus campestris Southern Jewelflower
		Cryptantha	o Stylocline gnaphalioides Evertasting Nest-straw
α.	Cucurbita foetidissima	Calabazilla	Tetradymia comosa. Cotton-thorn
· (1)	Descurainta sp.	Tansy-mustard	o Thysanocarpus sp. Fringepod
C	Dicentra chrysantha	Golden Ear-drops	c Trichostemma parishii Mountain Bluecurls
0	Dichelostemma capitatum	Blue Dicks	o Tropidocarpum gracile Slender Dobie-pod
0	Dudleya sp.	Dudleya	
٥	Emmenanthe pendulifera		Uropeppus findleyi Silver Puffs
		Whispering Bells	Viola purpurea
0	Enastrum sp.	Woolly-star	.0
. 0 .	Ericameria sp.	Goldenbush	0
O	Erigeron foliosus	Leafy Ωaisy	Other Flowering Plants:
. 0	Eriodictyon trichocalyx	Hairy Yerba Santa	n and the state of
G.	Eriogonum fasciculatum	Inland California Buckwheat	
		Buckwheat	The control of the co
	Eriogonum sp.	• •	0
c	Eriophyllum sp.	Golden-yarrow	
0	Erodium cicularium*	Red-stem Storksbill	6
Э	Erysismum capitatum	Western Waliflower	6
(6)	. Eschscholzia californica	California Poppy	υ
٥	Eucrypta chrysanthemifolia	Spotted Hideseed	l vi i i i i i i i i i i i i i i i i i i
.0	Euthamia occidentalis	Western Goldenrod	
			◇ Rare Wildlife or Rare Plants;
0	Gerrya veatchii	Canyon Silk Tassel	
.0	Gilia sp.	Gilia	c)
0	Gnaphalium	Curtweed	
o	Guillenia laslophylla	California Mustard	0
17	Gulierrezie sarothrae	Broom Matchweed	
<b>o</b> []	Heliotropium curassavicum	Salt Heliotrope	···
o	Hirshfeldia incana		a
		Short-pod Mustard	.a '
٥	Lamiym amplexicaule	Henbit	0
مسبنة	Lasihenia gracilis	Common Goldfields	
1	Leyiä glandulosa	White Layia	e
0	Lepidium sp.	Pepperweed	the second of th
· 6	Linanthus bellus	Desert Beauty	5
	Linanthus dicholomus	Evening Snow	l
0	Lonicera subspicata	Johnston's Honeysuckte	D
0	Malacethrix californica	California Dandelion	
· 6]	Málacothrix clevelándii	Cleveland's Malacothrix	•
0	Marah macrocarpus	Witd-cucumber	The state of the s
۰.	Marrubium vulgare*	Horehound	
10	Matricaria matricarioidas*	Common Pineappte-weed	
	Mentzella vealchiana	Veatch's Stick-leak	
٠, ٠			· · · · · ·
٩.	Microsteris gracilis	Siender Phlox	
0	Mimulus sp.	Monkeyflower	•
C	Nemophila menzeisii	Small-flower Baby Blue Eyes	om management of the second of
. 0 .	Orobanche bulbosa	Chaparral Broom-rape	

Recorder: <u>From Bongow</u> Add'l Person:	50pu	Date: 4.5.11 GPS Unit: 6
Project: Concentrix Solar Project Map #: Survey S	xn: 	Control of Survey # of of
TiME (24-hour) Tomp (F'): Wind (avg/max) N	Sc	Sky
Start 1,30	·	
1153 75 2-4	<u> </u>	clear potchy overcast dnozio showes
L 12 77 255 7	<u></u>	close patchy overcasa distrate stroves
1:00 80 2-5	<u>-</u> T	clour patchy overcest duzzle shower
2:00 80 2-5 6	<u> l</u>	cicus palchy overcust drizzle sassano
3:00 79 2-5	<del>-</del> }	c ear   policity; overcast dózz'e shower
End End	— — - <u>†</u>	
Habitat On-site (circle): open solts, hilltops, rldges, rock outcrops, so	il enuete e	dear CSICity overcast clitade shower
	<u>on crusis, c</u> Total	Joseph Solis, old loads, validus nectal soulces Total
Nymphalidae (Broshfooted Butterfiles)	Τ'	Hesperiidae (Skippers)
Euphydryas editha (Quino Checkerspot)	L	Erynnis funeralis (Funereal Duskywing).
Euphydryas chulcedona (Henne's Checkerspot)	1 6	Erynnis tristis (Sad Duskywing)
Thessalia leanira (Wright's Checkerspot)		Erynnis propertius (Propertius Duskywing)
Chlosyne californica (California Patch)	↓ <u> </u>	Erynnis brizo (Sleepy Duskeywing)
Chlosyne gabbii (Gabb's Checkerspot)  Phyciodos mylitta (Mylitta Crescent)	<b>⊢</b>	Pyrgus alboscens (Checkered Skipper)
Junonia coenia (Common Buckeye)	<b>⊢ւ</b>	Hesperia jubia (Jubia Skipper)
Vanessa annaheila (West Coast Lady	<u> </u>	Megathymidae (Giant Skippers)
Vanessa atalanta (Red Admiral)	·- ··-	Megathymus yuccae (Yucca Giant Skipper)
Vanessa cardui (Painted Lady)	ł	maganymas ypocae (1 doca olani oxipper)
Vanessa virginiensis (Virginia Lady)	†· · ·	Other Buttertlies:
Nymphatis californica (California Tortoiseshell)	<del></del>	† -————————————————————————————————————
Danaidae (Milkweed Butterfiles)		Destroy of 10
Danaus plexippus (Monarch)	]	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Denaus gilippus (Queen)	l	
Satyrīdae (Satyrs)	·	
Coenonympha californica (Common California Ringlet) Piertdae (Whites, Sulphurs)	i	<del>                                     </del>
Pieris rapac (Cabbage White)	<b>∤</b> .—	<del> </del>
Pontia sisymbrii (Spring White)	<del> </del>	<del>                                     </del>
Pontia beckerii (Beker's White)	-	·
Pontia protorike (Common White) [1]	75	······································
Anthocharis sara (Sara Orangetip)	3	· · · · · · · · · · · · · · · · · · ·
Anthochans cethura (Felder's Orangetip)	† —	· · · · · · · · · · · · · · · · · · ·
Euchloe hyantis (Desert Pearly Marble)	- C	
Colias eurytheme (Orange Sulphur)		T
Collas harfordii (Harford's Sulphur)	£.	
Nethalis iole (Dainty Sulphur)	<u>'</u>	
Papilionidae (Swallowtails) Papilio polyxenes (Desert Black Swallowtail)	·	Notes:
Papilio eurymedon (Pale swallowtail)	<b>├</b>	1 No. 1717 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Papilio rutulus(Western Tiger Swallowail)	<del> </del>	ANHU LEGO AUDIENIAS COTENTIALE
Riodiniade (Metalmarks)	+-	DATT HOSE BLACE TRINED TO COMMENT
1) Apodomia mormo (Behr's Metalmark) 11 April 147 (10-5 - 5 - 5 -	74	WIWA 6786 CA GROWNSON PRE
Lycaenidae (Hairstreaks and Blues)	<del>1</del> —-74	CALT TRUS GRANTIC SPINY LIZARIA
Celastrina ladon (Spring Azure)	1 -	CAQU LISP SIDE FLOWER BLIZARD
Leptotes marina (Marine Blue)	L	CATH AMER
Brephidium exilo (Western Pygmy Blue ) √		CORA SAPH
Glaucopsyche lygdamus (Southern Blue/Slivery blue)	l	LIGHME Wirsw
Hemiargus ceraunus (Edward's Blue)		CCPDy MEKI
Icaria aomon (Acmon Blue)	\$\frac{1}{2} -	UK SP BLGR
Callophrys augustinus (Brown Effin)	<u> </u>	Ac so LASP
Callophrys perplexa (Perplexing Green Hairstreak)		ACAN,
Slrymon melinus (Gray Hairstreak)	~!—	1 4 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5
Allidos halesus (Great Purple Hairstreak)	†	Kushi SAVS
·	1	+ *

## Potential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

Please Place a Check Mark Beside Flowering Plants, Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

	Antirrhinum coulterianum =	AC <u>Collinsia concolor</u> = C
75	Amsinckia menziesil	Rancher's Fiddleneck
ĺ0	Antirrhimum coulterianum	Coulter's Snapdragon
10	Antirrhinum nuttallianum	Nuttali's Snapdragon
٥	Asclepias fascicularis	Narrow-leaf Milkweed
O	Boechera sp.	Rock Cress
0	Calandrinia ciliata	Red Maids
ο".	Calochortus concolor	Golden-bowl Matiposa Lily
0.0	Calystegia longipes	Marning-glory
•	Camissonia sp.	Sun Cup
0	Castilleja exerta	Paintbrush
0.	Caulanthus heterophyllus	San Diego Jewelflower
ń	Caulanthus simulans	Payson's Caulanthus
o	Ceanothus cuneatus	Buck Brush
e	Ceanothus greggii	Cup-leaf-tilac
9	Ceanothus leucodermis	Chaparral Whitethorn
۵	Chaenactis artemisiilolia	White Pincushion
a	Chaenactis glabriuscula	Yellow Pincushion
ca .	Clematis sp.	Clematis
ю.	Collinsia concolor	Southern Chinese Houses
G	Cordylanthus rigidus	
X	Coreopsis californica	Dark-tip Bird's Beak
Ser.	Corellingyne filaginifolia	California Coreopsis
	Cryptantha sp.	Common Sand-aster
<i>&gt;</i> ^	Cucurbita loctidissima	Cryptantha
.0.	Descurainia sp	Calabaziila
	Dicentra chrysantha	Tansy-mustard
		Golden Ear-drops
٠ ٥	Dichelostemma cacitatum . Dudleya sp.	Blue Dicks
.0		Dudleya
0	Emmenanthe pendulifera	Whispering Bells
_	Eriastrum sp.	Woolly-star
γ°	Ericameria sp. \\ \[ \( \lambda \cdot \frac{\gamma}{\gamma} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Goldenbush
	Erigeron foliosus	Leafy Daisy
٥.	Eriodictyon trichocatyx.	Hairy Yerba Santa
٠.	Eriogonum fasciculatum	Inland California Buckwheat
	Eriogonum sp.	Buckwheat
0	Eriophyllum sp.	Golden-yarrow
	Erodium cicularium	Red-stem Storksbill
D	Erysismum capitatum	Western Wallflower
0	Eschscholzia californica	California Poppy
0	Eucrypta chrysanthemifolia	Spotted Hideseed
o ·	Euthamia occidentalis	Western Goldenrod
a	Garrya veatchii	Canyon Silk Tassel
ο.	Gilla sp.	Gilia
O	Gnaphalium	Cudweed
• :	Guillenia lasiophylla	California Mustard
٥.	Gutierrezia sarothrae	Broom Matchweed
o_	Heliotropium curassavicum	Sall Hellotrope
M	Hirshfeldia incana	Short-pod Mustard
ο.	Lamium emplexicaule	Henbit ·
M)	Lasthonia gracifis	Common Goldfields
	Layte glandulose	White Layla
	Lepidium sp.	Pepperweed
o.	Linanthus bellus	Desert Beauty
	Linanthus dicholomus	Evening Snow
		Johnston's Honeysuckle
	Malacothrix californica	California Dandelion
	Malacothrix clevelandii	Cleveland's Malacothrix
	Marah macrocarpus	Wild-cucumber
		Horehound
		Common Pineapple-weed Veatch's Stick-leak
	Microsteris gracifis	
	4.44	Stender Phiox
	vimurus sp. Nemophila menzoisii	Monkeyflower Small-flower Baby Rius Even
- 1	THE PROPERTY OF THE PROPERTY O	STRUMENT WAR HADD BUILD BUSS

Small-flower Baby Blue Eyes

Chaparral Broom-rape

Nemophila menzoisii Orobanche bulbosa

lanthus rigidus = CR Plantago (	patagonica = PP
Osmadonia tenella	Osmadenia
Peeonia californica	
	California Peony
	Pectocarya
Phacelia sp. A) State S	Phacelia
Pholisloma membranaceum	White Fiesta Flower
Plagiobothrys sp.	Popcomflower
<ul> <li>Plantago patagonica</li> </ul>	Desert Plantain
<ul> <li>Platystemon californicus</li> </ul>	Gream Cups
o Prunus ilicifolia	Holly-leaf Cherry
<ul> <li>Rafinesquia neomexicana</li> </ul>	Desert Chicory
<ul> <li>Ribes quercetorum</li> </ul>	Oak Gooseberry
<ul> <li>Rorripa nasturtium-aqualicum</li> </ul>	Water-cress
<ul> <li>Rosa californica</li> </ul>	California Rose
o Saltugilia australis	Southern Gilia
← Senecio californicus	California Butterweed
Senecio flaccidus	Bulterweed
Sidalcea malvaeflora	Checker-bloom
o. Sisymbrium sp.	Tumble Mustard
Solidago californica	
	California Goldenrod
0.20.70 5/0/0/00	Hedge-netile
Stephanomeria sp.	Wreathplant
Streptanthus campostris	Southern Jewelflower
Stylocline gnaphalioides	Everlasting Nest-straw
o Tetradymia comosa 🗀 💮	Cotton-thorn
Thysanocarpus sp.	Fringepod
Trichoslemma parishii	Mountain Bluecurls
<ul> <li>Tropidocarpum gracile</li> </ul>	Slerider Dobie-pod
Oropappus ilnaieyi	Silver Puffs
· Viola purpurea	Oak Yellow Violet
a transfer for the first of the	
,	
Other Flowering Plants:	
C. Mernedia	• •
S. Merachia	
Brassico Alexa	4.
Lupinuo continuo.	borrolis timine
PENSTE MON	San Contraction
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Comation day con	p
this continues	
Rare Wildlife or Rare Plants:	
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BBADD T	286012-5

Record	ser: Mike C	OUFFERD	_Add't Person:		0	Date: <u>26 APQ11 , 2011</u> GPS Unit : 1)	
Projec	t: Concentrix Sc	lar Proje <u>ct</u> A	fap#:Sur	vey Sxc	1; _£	OCB Protocol Survey #of5	
ļ.	TIME (24-hour)	Temp (F*):	White (avg/max)	% C	c	Sky	
Start	[230 Nes	76°F	Ø->3m?k	10		clear patchy overcest drizzte shower	
	1300 Has	77°F		0	5	clear patthy overcest dazzle shower	
	1400 Hes	20°/F	Ø 3/102H	Ø			
-	1500 Hes	78°F		13			-
<u> </u>	<u> 1900 nes i</u>	70.5	200mpH	معكم		cream policity overcest districte shower	_
						clear painty overcest dozde shower	
<u> </u>				<u></u>		clear patchy overcast drizzle shower	
End						clear paichy overcast draze shower	
Habitat	On-site (circle):-opei	r seds, hilltopek	ndges tock outer	ops soil		lay soils old roads/various nectar sources	
Numb	alidae (Brushfoote	d Dutterflies	777 777 L 5 786 C	erani UT	Total		tal
	ydryas edilha (Quino		to a Constitution of the C			Respertidae (Skippers)	
	ydryas chalcedona (i		erannt)	+	ف	Erynnis funeralis (Funereal Duskywing) ( Erynnis Iristis (Sad Duskywing)	
	salia leanira (Wright's				<u> </u>	Erynnis tristis (Gati Boskywing)  Erynnis propertius (Propertius Duskywing)	
	yne californica (Calif		······································			Erynnis brizo (Sleepy Duskeywing)	
	yne gabbii (Gabb's C			- +		Pyrgus albescens (Checkered Skipper)	
	odes mylitta (Mylitta					Hesperia jub a (Jub a Skipper)	•
	nia coenia (Common				12)	Polites sabuleti (Sandhill Skipper)	<del>}</del>
	sse annabella (West				12	Megathymidae (Glant Skippers)	
Vane	ssa atalante (Red Ad	imiral)				Megathymus yuccae (Yucca Giant Skipper)	
Vane	sse c <i>erdui</i> (Painted l	Lady)			1		
Vane	ssa virginiensis (Virgi	inla Lady)			•	Other Butterflies:	
Nyme	halis californica (Ca	Ilfornia Tortoise	eshell)			PHOLISORA CATULUS (Common Scort winer)	
Danalo	ae (Milkweed Butte	rflies)	Constitution (Constitution)	4.00 m		NORTHERN WHITE-SHIPPER	<u>.</u>
	us plexippus (Monare	ch)					
Dane	us gl#ppus (Queen)						
Satyrid	ae (Satyre)			100.0		<u> </u>	
Coen	onympha californica	(Common Cair	omia Ringlet)			<u> </u>	
	e (Whites, Sutphurs			Na 197			
	rapae (Cabbage Wh		· · · ·				
	sisymbrii (Spring W beckerii (Beker's W						
	protodice (Commo						
	charis sars (Sara Or						
	charis cethura (Feld			+			
	oe byentis (Desert P		<del> </del>		···-	·	
	eurytheme (Orange		·	-+			
	harfordii (Harford's			-		· <del>                                     </del>	
	ils lole (Dainty Sulph				1	· · <del>- ·</del> · · · · · · · · · · · · · · · · · ·	
	nidae (Swallowtalis	•	kapaki yiraktari	·		Notes: And the preparation of the property of	
	o polyxenes (Desert		ail)				
	o eurymedon (Pale s				-63-u		
Papili	o <i>rututus(Wester</i> n Tig	ger Swallowtail	)				
Riodini	ade (Metalmarks)			(*)			
	emia mormo (Behr's	•			80		
	ldae (Halrstreeks a		<u> 1, 14 / 1144</u>				
	Irina ladon (Spring A					·	
	tes marine (Marine E						
	idium exile (Western		Dihanna Marah				
	opsyche lygdamus ( ergus ceraunus (Edw		onvery pine)			<u>.</u>	
	acmon (Acmon Blue						
	acmon (Acmon Blue es sonorensis (Sono	•			<u>ىد</u>		
	ohrys augustinus (Br			<del></del>			
	nnys augusunus (Bri nnys perplexa (Perp		airetraak\		<u> </u>	<u></u>	
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	- wareaus (orest PO)	pie (ianatieak)					

Instructions:

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Antirrhinum coulterianum = AC, Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

0	Amsinckia menziesii	Rancher's Fiddleneck
•	Antirrhimum coulterlanum	Coulter's Snapdragon
	Antimhinum nuttellianum	Nuttail's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milkweed
0	Boechers sp.	Rock Cress
0	Celandrinia ciliata	Red Maids
.0	Calochortus coricolor	Golden bowl Mariposa Lily
·	Calyslegia longipes	Morning-glory
	Canissonia sp.	Sun Cup
0	Castilleja exerta	Paintbrush
	Caulanihus heterophyllus	
		San Diego Jewelflower
0	Caulanthus simulans	Payson's Caulanthus Buck Brush
	Ceanothus cunealus	· · · · · · · · · · · · · · · · · · ·
δ.	Ceenothus greggil	Cup-leaf-lilac
	Ceanothus leucodermis Chaenactis artemisifolia	Chaparral Whitethorn
0		
	Chaenactis glabriuscula	Yellow Pincushian
	Clematis sp. Collinate concolor	Clematis Southern Chinese Houses
o.	Cordylanthus rigidus	Dark-tip Bird's Beak
	Coreopsis californica	Californie Coreopala
	Corethrogyne fileginifolie	Common Sand-aster
	Cryptantha sp.	Cryptantha
.°.	Cucurbita foelidissima	Calabazilla
ю.	Descurelnia sp.	Tansy-musterd
٥	Dicentre chrysanthe	Golden Ear-drops
	Dichelostemme capitatum	Blue Dicks
<u></u> .	Oudleya sp.	Dudleya
U	Emmenenthe pendulifera	Whispering Bells
۰.	Eriastrum sp.	Woolly-star
۰.,	Ericameria sp.	Goldenbush
٠	Erigeron foliosus	Leafy Daisy
Ģ	Eriodictyon trichacelyx	Hairy Yerba Santa
٥	Eriogonum fasciculatum	Inland California Buckwheat
ė	Eriogonum sp.	Buckwheat :
0	Eriophyllum sp.	Golden-yarrow
٥.,	Erodium clouterium*	Red-stem Storksbill
٥	Erysismum capitatum	Western Walflower
٥	Eschscholzia californica	California Poppy
۰.	Eucrypta chrysanthemifolia	Spotted Hideseed
.o.	Euthamia occidentalis	Western Goldenrod
D	Gerrya vealchii	Canyon Silk Tassel
٥.	Glie sp.	Gilia
٥.	Gnaphalium	Cudyaed
υ÷.	Guillenia lasiophylla	California Musterd
O	Gutierrezia sarothrae	Broom Matchweed
oʻ	Heliotropium curessavicum	Salt Heliotrope
o.	Hirshfeldia incana	Short-pod Mustard
0 ;	Lamlum amplexicaule	Henbit
6-	Lastbenia gracilis	Common Goldfields
9/	Lavia glandulose	White Layia
o	Lepidium sp.	Pepperweed
o÷.	Linanthus bellus	Desert Beauty
•	Linanthus dichotomus	Evening Snow
	Lonicera subspicata	Johnston's Honeysuckie
0	Malacothrix californica	California Dandellon
ö.	Malacothrix clevelandli	Cleveland's Malacothrax
0	Marah macrocarpus	Wild-cucumber
0.	Merrubium vulgare*	Horehound
	Matricaria matricarioides*	Common Pineappte-weed
9. 0	Mentzelia vealchiana	Veatch's Stick-leak
0.	Microsteris gracilis	Stender Phlox
ò	Mimulus sp.	
	Nemophila menzeisil	Monkeyflower Small-flower Baby Blue Eyes
.°	Orobanche bulbosa	Chaparral Brown-rape
	CANADIONO GOIDOSE	опарана опиличаре

Osmadenia tenella	Osmađenia
Paeonia californica	California Peony
Peclocarya sp.	Pectocarya
Phacella sp.	Phacelia
Pholistoma membranaceum	White Fiesta Flower
Plagiobothrys sp.	Popcernflower
Plantago patagonica	Desert Plantain
. Platystemon californicus	Cream Cups
Prunus ilicifolia	Holly-leaf Cherry
Rafinesquia neomexicana	Desert Chicory
Ribes quercetorum	Oak Gooseberry
Romps nasturtium-aquaticum	Water-cress
Rosa californica	California Rose
Saltugilie australis	Southern Gilia
Senecio californicus	California Butterweed
Senecio fleccidus	Butterwead
Sidalcea malvaeflora	Checker-bloom
Sisymbrium sp.	Tomble Mustard
Solidago californica	California Goldenrod
	Hedge-nettle
Stephanomeria sp.	Wreathplant
Streptanthus campestris	Southern Jewelflower
Stylocline gnaphalioides	Everlasting Nest-straw
Tetradymia comosa	Cotton-thorn
Thysanocarpus sp.	Fringepod
Trichostemma parishii	Mountain Bluecurls
Tropidocerpum gracile	Stender Doble-pod
Uropappus lindleyl	Silver Puffs
Viola purpurea	Oak Yellow Violet
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Other Elowering Plants: RHUS OVATA	SUGHE BUSH
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RHUS OVATA  Rare Wildlife or Rare Plants:  McWWOOL  McWWO	SUGHP BUSH
RHUS OVATA  Rare Wildlife or Rare Plants:  McWWOOL  McWWO	SUGHE BUSH
RHUS OYATA  Rare Wildlife or Rare Plants:  Mcwwool Coas  Mcwwoos  Mcwwoos  Mcwwoos  Mcwwoos  Mcwwoo	SUGHP BUSH
RHUS OVATA  Rare Wildlife or Rare Plants:  McWWO I COAS  McWWO Z  McWWO Z  McWWO S  MCWWO S  MCWWO S  MCWWO F  MCWWO F  MCWWO F  MC BTGNO I (PAIR)	SUGHR BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RHUS OVATA  Rare Wildlife or Rare Plants:  McWWO I COAS  McWWO Z  McWWO Z  McWWO S  MCWWO S  MCWWO S  MCWWO F  MCWWO F  MCWWO F  MC BTGNO I (PAIR)	SUGHR BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RHUS ONATA  Rare Wildlife or Rare Plants:  McWWOOL  MCCHLOI	SUGHP BUSH
RHUS ONATA  Rare Wildlife or Rare Plants:  McWWOOL  MCCHLOI	SUGHR BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RAUS OVATA  Rare Wildlife or Rare Plants: MCWWO I MCHLOI	SUGHP BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RAUS OVATA  Rare Wildlife or Rare Plants: MCWWO I MCHLOI	SUGHP BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RHUS ONATA  Rare Wildlife or Rare Plants:  McWWOI COAS  McWWO 3  McWWO 4  McWWO 5  MCWWO 6  MCWWO 7  MCWWO 7  MCWWO 7  MCKBTGNOI (PAIR)	SUGHP BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RHUS ONATA  Rare Wildlife or Rare Plants:  McWWOOL  MCCHLOI	SUGHP BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RHUS OVATA  Rare Wildlife or Rare Plants:  McWWO I COAS  McWWO Z  McWWO Z  McWWO S  MCWWO S  MCWWO S  MCWWO F  MCWWO F  MCWWO F  MC BTGNO I (PAIR)	SUGHP BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA
RHUS OVATA  Rare Wildlife or Rare Plants:  McWWO I COAS  McWWO Z  McWWO Z  McWWO S  MCWWO S  MCWWO S  MCWWO F  MCWWO F  MCWWO F  MC BTGNO I (PAIR)	SUGHP BUSH TACWESTEEN WHIOTA IN BLACK TALED GNATCATCHER HOENED CLARA

Project: Concentrix 5	Solar Project N	Map #: 7 Su	rvey Sxn:		QCB Protocol Survey # of	5
TIME (24-hour)	Tomp (F"):	Wind (avg/max)	% cc		Sky	
tart					clear patchy overcast drizzle shower	
9:00	750	2-5	0	$\neg$		
	000		0	_	_clear> patchy overcast drizzle shower	
11:30	10	3-6	0	_	clear patchy overcast drizzle shower	_
2.00	80	2-4	0	_	clear patchy overcast drizzle shower	
15:00	83	2-4	0		clear patchy overcast drizzle shower	
					clear patchy overcast drizzle shower	
2737						
End				- V	clear patchy overcast drizzle shower	
Habitat On-site (circle): op	en soils, hilltops,	ridges, rock outc			lay solls, old roads, various nectar sources	To
Nymphalidae (Brushfool	ad Butterfline	11.1	Park Company	otal	Hesperiidae (Skippers)	То
Euphydryas editha (Qui	o Checkerenot)	WEAT /	PA		Erynnis funeralis (Funereal Duskywing)	-
Euphydryas chalcedona					Erynnis tristis (Sad Duskywing)	+
	the state of the s				Erynnis tristis (Sad Duskywing)  Erynnis propertius (Propertius Duskywing)	-
Thessalla leanira (Wrigh	Control from the control of the cont		_	_	Erynnis brizo (Sleepy Duskeywing)	+
Chlosyne californica (Ca						+
Chlosyne gabbii (Gabb's					Pyrgus albescens (Checkered Skipper)	-
Phyciodes mylitta (Mylitt			\	. ~.	Hesperia jubia (Jubia Skipper)	1
Junonia coenia (Commo		JHT IIII	1111	17	Polites sabuleti (Sandhill Skipper)	3
Vanessa annabella (We					Megathymidae (Giant Skippers)	_
Vanessa atalanta (Red /				-	Megathymus yuccae (Yucca Giant Skipper)	
Vanessa cardui (Painte	A STATE OF THE PARTY OF THE PAR					
Vanessa virginiensis (Vi					Other Butterflies:	
Nymphalis californica (0		eshell)			Square spotted places bettoida	- 4
Danaidae (Milkweed But	The State of the S	and the state of t	TICOTH!		a suphilates bettoida	
Danaus plexippus (Mon-					Bernadiko.	
Danaus gilippus (Queen	)					
Satyridae (Satyrs)						
Coenonympha californic	a (Common Cali	fornia Ringlet)				
Pieridae (Whites, Sulphu	ırs)					
Pieris rapae (Cabbage V	and the second s	2504				
Pontia sisymbrii (Spring	White) /					
Pontia beckerii (Beker's						
Pontia protodice (Comm	on White)					
Anthocharis sara (Sara	Orangetip)	(i				1
Anthocharis cethura (Fe	lder's Orangetip)					-
Euchloe hyantis (Desert	Pearly Marble)					
Colias eurytheme (Oran	ge Sulphur)	[1]		6		
Colias harfordii (Harford	's Sulphur)			*		
Nathalis iole (Dainty Sul	phur)					
Papilionidae (Swallowta	ils)	_			Notes:	22
Papilio polyxenes (Dese	rt Black Swallow	tail)				
Papilio eurymedon (Pak	swallowtail)					
Papilio rutulus(Western	Tiger Swallowta	II)				-
Riodiniade (Metalmarks)	<u>)</u>	1 .				
Apodemia mormo (Behr	's Metalmark) 🔐	447 144	THE NEW	7.4		
Lycaenidae (Hairstreaks	and Blues)	)-11-		-	7	
Celastrina ladon (Spring	Azure) /					
Leptotes marina (Marine	Blue)					
Brephidium exile (Weste		-				
Glaucopsyche lygdamus		Silvery blue)				
Hemiargus ceraunus (E			- 1	-0		
Icaria acmon (Acmon Bi	THE RESIDENCE OF THE PROPERTY	111		5		
Philotes sonorensis (So		111		-		
Callophrys augustinus (						_
Callophrys perplexa (Pe		lairstreak)				+
Strymon melinus (Gray		in an early	-			_
- and the same and the same of	· · · · · · · · · · · · · · · · · · ·				Daniel 1977	
Atlides halesus (Great F	urole Hairstreak					

## vential Nectaring or Host Plants for Quino Checkerspot Butterfly in Boulevard, California (Concentrix Solar)

cructions:

Please Place a Check Mark Beside Flowering Plants. Use Numbered Notes to Add Species Detail.

PLEASE RECORD HOST PLANTS ON GPS See Codes Below:

Antirrhinum coulterianum = AC Collinsia concolor = CC Cordylanthus rigidus = CR Plantago patagonica = PP

25	Amsinckia menziesii	Rancher's Fiddleneck
0	Antirrhimum coulterianum	Coulter's Snapdragon
0	Antirrhinum nuttallianum	Nuttall's Snapdragon
0	Asclepias fascicularis	Narrow-leaf Milkweed
×	Boechera sp.	Rock Cress
0	Calandrinia ciliata	Red Maids
0	Calochortus concolor	Golden-bowl Mariposa Lily
0	Calystegia longipes	Morning-glory
0	Camissonia sp.	Sun Cup
0	Castilleja exerta	Paintbrush
0	Caulanthus heterophyllus	San Diego Jewelflower
0	Caulanthus simulans	Payson's Caulanthus
0	. Ceanothus cuneatus	Buck Brush
×	Ceanothus greggii	Cup-leaf-lilac
0	Ceanothus leucodermis	Chaparral Whitethorn
	Chaenactis artemislifolia	White Pincushion
×	Chaenactis glabriuscula	Yellow Pincushion
×	Clematis sp.	Clematis
×	Collinsia concolor	
0	Cordylanthus rigidus	Southern Chinese Houses Dark-tip Bird's Beak
×	Coreopsis californica	
0	Corethrogyne filaginifolia	California Coreopsis
×	Cryptantha sp.	Common Sand-aster
0	Cucurbita foetidissima	Cryptantha
×	Descurainia sp.	Calabazilla
~	Dicentra chrysantha	Tansy-mustard
1	Dichelostemma capitatum	Golden Ear-drops
2	Dudlevo en	Blue Dicks
Ç	Dudleya sp.	Dudleya
-	Emmenanthe pendulifera	Whispering Bells
V	Eriastrum sp.	Woolly-star
-	Ericameria sp.	Goldenbush
*XX.*.*.XXX	Erigeron foliosus	Leafy Daisy
0	Eriodictyon trichocalyx	Hairy Yerba Santa
≎	Eriogonum fasciculatum	Inland California Buckwheat
V	Eriogonum sp.	Buckwheat
3	, Eriophyllum sp.	Golden-yarrow
~	Erodium cicutarium*	Red-stem Storksbill
0	Erysismum capitatum	Western Wallflower
×	Eschscholzia californica	California Poppy
0	Eucrypta chrysanthemifolia	Spotted Hideseed
0	Euthamia occidentalis	Western Goldenrod
X	Garrya veatchii	Canyon Silk Tassel
3	Gilia sp.	Gilia
<b>₹</b>	Gnaphalium	Cudweed
9	Gulllenia lasiophylla	California Mustard
1	Gutierrezia sarethrae	Broom Matchweed
0	Heliotropium curassavicum	Salt Heliotrope
×	Hirshfeldia incana	Short-pod Mustard
0	Lamium amplexicaule	Henbit
×	Lasthenia gracilis	Common Goldfields
×	Layla glandulosa	White Layia
0	Lepidium sp.	Pepperweed
×	Linanthus bellus	Desert Beauty
0	Linanthus dichotomus	Evening Snow
1	Lonicera subspicata	Johnston's Honeysuckle
0	Malacothrix californica	California Dandelion
0	Malacothrix clevelandii	Cleveland's Malacothrix
0,	Marah macrocarpus	Wild-cucumber
×	Marrubium vulgare*	Horehound
0	Matricaria matricarioides*	Common Pineapple-weed
0	Mentzelia veatchiana	Veatch's Stick-leak
0	Microsteris gracilis	Slender Phlox
×	Mimulus sp.	Monkeyflower
0	Nemophila menzeisii	Small-flower Baby Blue Eyes
0	Orobanche bulbosa	Chaparral Broom-rape
(75)		

Pectocarya sp. Phacelia sp. White Flesta Flower Plagiobothrys sp. Plantago patagonica Platystemon californicus Prunus ilicifolia Rafinesquia neomexicana Ribes quercetorum Roripa nesturtium-aquaticum Rose californica Saltugilia australis Senecio californicus Senecio flaccidus Sidalcea malvaefiora Stachys ajugoides Stephanomeria sp. Streptanthus campestris Stylocline gnaphalioides Tetradymia comosa Thysanocarpus sp. Tetradymia comosa Trichostemma parishii Tropidocarpum gracile Uropappus lindleyi Viola purpurea  Pectocarya Phacelia Phacelia White Flesta Flower Popcornflower Desert Plantain Cream Cups Holly-leaf Cherry Desert Chicory Oak Gooseberry Water-cress California Rose Southern Gilia California Rose Southern Gilia California Butterweed Checker-bloom Tumble Mustard California Goldente Hedge-nettle Wreathplant Southern Jewelflov Everlasting Nest-st Cotton-thorn Fringepod Mountain Bluecuris Sliver Puffs Oak Yellow Violet  Placelia Phacelia White Flesta Flower Popcornflower Desert Plantain Uropapha Silver Puffs Oak Yellow Violet	
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Pectocarya sp. Phacelia sp. Pha	
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Thysanocarpus sp. Trichostemma parishii Tropidocarpum gracile Uropappus lindleyi Viola purpurea  Other Flowering Plants:  Rare Wildlife or Rare Plants:  Slender Dobie-pod Silver Puffs Oak Yellow Violet  Other Flowering Plants:  Rare Wildlife or Rare Plants:	SPARIE IN THE
Trichostemma parishii Mountain Bluecuris Tropidocarpum gracile Slender Doble-pod Uropappus lindleyi Silver Puffs Viola purpurea Oak Yellow Violet  Other Flowering Plants:  Rare Wildlife or Rare Plants:  GRADIAI SAIBO ABBADDAD AB	
Tropidocarpum gracile Uropappus lindleyi Viola purpurea  Other Flowering Plants:  Rare Wildlife or Rare Plants:  GRADDAI SAIBDAI  SISTERIOR Silver Puffs Oak Yellow Violet  AND	
Uropappus lindleyi Silver Puffs Viola purpurea Oak Yellow Violet  Other Flowering Plants:  Rare Wildlife or Rare Plants:  Silver Puffs Oak Yellow Violet  All Silver Puffs Oak Yellow Violet	
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# APPENDIX D POTENTIAL NECTARING SOURCES AND HOST PLANTS DETECTED DURING QUINO SURVEYS

## Appendix D Potential Nectaring Sources and Host Plant Species Detected During Quino Surveys^A

			Survey Week						
Scientific Name	Common Name	1	2	3	4	5	6		
Amsinckia menziesii	rancher's fiddleneck	Х	Х	Х	Х	х	Х		
Boechera pulchra	beautiful rock cress	Х	Х	Х	Х	Х	Х		
Calandrinia ciliata	red maids			Х	Х	Х			
Calystegia longipes	morning-glory				Х	Х			
Camissonia sp.	sun cup	Х	Х	Х	Х	х	×		
Castilleja subinclusa	Indian paintbrush					х			
Caulanthus affinis	Indian paintbrush	Х	Х						
Caulanthus heterophyllus	San Diego jewelflower			Х	Х	х			
Caulanthus simulans	Payson's caulanthus	Х							
Ceanothus cuneatus	buck brush	х	Х		Х				
Ceanothus greggii	cup-leaf lilac	х	х	х	х	х	)		
Ceanothus leucodermis	chaparral whitethorn		х	х					
Chaenactis glabriuscula	yellow pincushion						2		
Clematis sp.	clematis	х		х		х	)		
Collinsia concolor	southern Chinese houses ^B		х			X	,		
Cordylanthus rigidus	dark-tip bird's beak			х			f		
Coreopsis californica	California coreopsis	Х	х	X	х	х	7		
Corethrogyne filaginifolia	common sand-aster	^							
Cryptantha sp.	cryptantha	х	х	х	х	х			
Descurainia sp.	tansy-mustard	X	X	X	X	X			
Descuranna sp. Dichelostemma capitatum	blue dicks	^	X	^	^	X	_		
Dudleya sp.	dudleya		^			^	-		
Emmenanthe pendulifera	whispering bells			~					
			.,	X					
Eriastrum sp.	woolly-stars		X	X			1		
Ericameria sp.	goldenbush	Х	X	X	Х	X	1		
Erigeron foliosus	leafy daisy		ļ	<u> </u>			1		
Eriodictyon trichocalyx	hairy yerba santa			X			2		
Eriogonum fasciculatum	inland California buckwheat		Х	Х		Х	_ 2		
Eriogonum sp.	buckwheat				Х	Х	_ 2		
Eriogonum wrightii	bastardsage			Х			<u> </u>		
Eriophyllum confertiflorum.	golden-yarrow		X	X	Х	X	_ 2		
Erodium cicutarium	red-stem storksbill	X	X	X	X	X	2		
Erysismum capitatum	western wallflower					Х	<u> </u>		
Eschscholzia californica	California poppy	X	X	X	X	X	- 2		
Eucrypta chrysanthemifolia	spotted hideseed	Х		X					
Garrya veatchii	canyon silk tassel	х	X	X	X		- 2		
Gilia sp.	gilia			X	X	X	_ :		
Gnaphalium sp.	cudweed						2		
Guillenia lasiophylla	California mustard	X				X			
Gutierrezia sarothrae	broom matchweed			X	X	X	:		
Heliotropium curassavicum	salt heliotrope				Х	Х			
Hirshfeldia incana	short-pod mustard	х	Х	Х	Х	Х	- 2		
Lasthenia gracilis	common goldfields	х	Х	Х	Х	Х	2		
Layia glandulosa	white layia	х	Х	Х	х	х	2		
Lepidium sp.	pepperweed			Х	х	х	2		
Linanthus bellus	desert beauty	х	х	х	х	х	2		
Lupinus bicolor	miniature lupine					х	Г		
Lupinus concinnus	bajada lupine			х		Х	T		
Linanthus dichotomus	evening snow			T	х	X	T		
Lonicera subspicata	Johnston's honeysuckle		1	х					
Malacothrix californica	California dandelion		1	X		Х			
Marah macrocarpus	wild-cucumber			Ê		X	ť		

		Survey Week					
Scientific Name	Common Name	1	2	3	4	5	6
Marrubium vulgare	horehound						х
Matricaria matricarioides	common pineapple-weed	Х					
Mentzelia veatchiana	Veatch's stick-leak						Х
Nemophila menzeisii	small-flower baby blue eyes	Х	Х	Х		Х	
Orobanche bulbosa	chaparral broom-rape						Х
Osmadenia tenella	osmadenia				Х		
Paeonia californica	California peony		Х				
Pectocarya sp.	pectocarya	Х	Х	Х	Х	Х	Х
Phacelia sp.	phacelia	Х	Х	Х	Х	Х	Х
Phacelia distans	distant phacelia			Х			
Pholistoma membranaceum	white fiesta flower						Х
Plagiobothrys sp.	popcornflower	Х	Х	Х	Х	Х	Х
Rhus ovata	sugar bush		Х	Х	Х	Х	Х
Rhus trilobata	skunkbush sumac	Х					
Platystemon californicus	cream cups			Х	Х	Х	
Prunus ilicifolia	holly-leaf cherry		X	X			
Ribes quercetorum	oak gooseberry			X			X
Senecio californicus	California butterweed	X	X	X	X	X	X
Sisymbrium sp.	tumble mustard	Х	Х	Х	Х	Х	Х
Solidago californica	California goldenrod					Х	X
Streptanthus campestris	southern jewelflower			Х		Х	
Stylocline gnaphalioides	everlasting nest-straw		Х	Х	Х	Х	Х
Thysanocarpus sp.	fringepod	Х		Х			Х
Trichostemma parishii	mountain bluecurls		Х			Х	Х
Uropappus lindleyi	silver puffs		Х	Х	Х		Х

A The Quino survey area (within the LanEast project site) was initially part of a larger survey area that was separated into three separate CPV projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of protocol Quino checkerspot butterfly (*Euphydryas editha quino*) surveys. LanWest Solar Farm is located adjacent to the proposed project (on the western boundary of LanEast). Rugged Solar Farm is located directly north of Interstate 8. All three project sites were surveyed at the same time for Quino and, therefore, the weekly potential nectaring and host plant species detected list is the same for all three project sites.

**Bold** = potential Quino larval host plant species.

^B This host plant was only found on Rugged Solar.

# APPENDIX E VERTEBRATE WILDLIFE SPECIES DETECTED DURING QUINO SURVEYS

### Appendix E Vertebrate Wildlife Species Detected During Quino Surveys^A

Scientific Name	Common Name				
REPTILES					
Order Squamata	Lizards and Snakes				
Family Phrynosomatidae					
Phrynosoma coronatum blainvillii ^B	coast horned lizard ^B				
Family Teiidae					
Cnemidophorus tigris ^C	coastal whiptail ^C				
BIRDS					
Order Ciconiiformes	Herons, Storks, Ibises, and Relatives				
Family Ardeidae					
Butorides virescens	green heron				
Family Cathartidae					
Cathartes aura	turkey vulture				
Order Falconiformes	Diurnal Birds of Prey				
Family Accipitridae					
Buteo jamaicensis	red-tailed hawk				
Order Galliformes	Magapodes, Curassows, Pheasants, and				
T. 1. O.L. ( )	Relatives				
Family Odontophoridae					
Callipepla californica	California quail				
Order Charadriiformes	Shorebirds, Gulls, and Relatives				
Family Charadriidae					
Charadrius vociferus	killdeer				
Order Columbiformes	Pigeons and Doves				
Family Columbidae					
Zenaida macroura	mourning dove				
Streptopelia decaocto	Eurasian collared-dove				
Order Piciformes	Woodpeckers				
Family Picidae					
Melanerpes formicivorus	acorn woodpecker				
Colaptes auratus	northern flicker				
Order Passeriformes	Song birds				
Family Tyrannidae					
Sayornis saya	Say's phoebe				
Tyrannus verticalis	western kingbird				
Family Corvidae					
Corvus corax	common raven				
Aphelocoma californica	western scrub jay				
Family Paridae					
Baeolophus inornatus	oak titmouse				
Family Hirundinidae					
Petrocheliodon pyrrhonota	cliff swallow				
Stelgidopteryx serripennis	northern rough-winged swallow				
Family Aegithalidae					
Psaltriparus minimus	bushtit				
Family Troglodytidae					
Thryomanes bewickii	Bewick's wren				
Troglodytes aedon	house wren				
Family Sylviidae					
Polioptila caerulea obscura	blue-gray gnatcatcher				
Family Turdidae					
Sialia mexicana	western bluebird				
Family Timaliidae					
Chamaea fasciata	wrentit				

Scientific Name	Common Name		
Family Regulidae			
Regulus calendula	ruby-crowned kinglet		
Family Mimidae			
Mimus polyglottos	northern mockingbird		
Family Sturnidae			
Sturnus vularis	European starling		
Family Parulidae			
Dendroica coronata	yellow-rumped warbler		
Vermivora ruficapilla	Nashville warbler		
Vermivora celata	orange-crowned warbler		
Dendroica petechia ^B	yellow warbler ^B		
Family Emberizidae			
Amphispiza bilineata	black-throated sparrow		
Spizella breweri	Brewer's sparrow		
Pipilo crissalis	California towhee		
Pipilo maculates	spotted towhee		
Junco hyemalis	dark-eyed junco		
Chondestes grammacus	lark sparrow		
Zonotrichia leucophrys	cophrys white-crowned sparrow		
Family Icteridae			
Euphagus cyanocephalus			
Agelaius tricolor ^B	Tricolored blackbird ^B		
Icterus bullockii	Bullock's oriole		
Family Fringillidae			
Carpodacus mexicanus	house finch		
MAMMALS			
Order Lagomorpha	Rabbits, Hares, and Pikas		
Family Leporidae			
Sylvilagus audubonii	Audubon's cottontail		
Lepus californica bennettii ^B	San Diego black-tailed jackrabbit ^B		

A The Quino survey area (within the LanEast project site) was initially part of a larger survey area that was separated into three separate CPV projects (LanWest Solar Farm, LanEast Solar Farm, and Rugged Solar Farm) after the completion of protocol Quino checkerspot butterfly (*Euphydryas editha quino*) surveys. LanWest Solar Farm is located adjacent to the proposed project (on the western boundary of LanEast). Rugged Solar Farm is located directly north of Interstate 8. All three sites were surveyed for Quino at the same time. This list of vertebrate wildlife species detected represents species detected for both the LanWest and LanEast projects (but does not include observations from the Rugged Solar site).

^B State species of special concern (State of California 2011)

^c State special animal (State of California 2011)